

**Agreed Order Remedial Investigation
2016 Data Summary Report**

University of Washington-Tacoma (UWT) Campus
Tacoma, Washington

for
University of Washington

December 20, 2017



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1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940

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File No. 0183-109-01

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Prepared for:

University of Washington
Capitol Project Office
PO Box 354110
Seattle, Washington 98195-4110

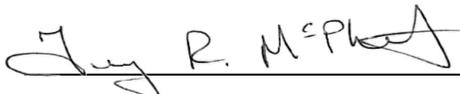
Attention: Steve Harrison

Prepared by:

GeoEngineers, Inc.
1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940



Tricia S. DeOme, LG
Environmental Geologist



Terry R. McPhetridge, LG, LHG
Associate

TSD:TRM:tt:ch

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1.0 INTRODUCTION

This data report documents the results of the 2016 remedial investigation (RI) field work completed at the University of Washington - Tacoma (UWT) Campus. The objective of the 2016 field work was to further understand geologic and hydrogeologic conditions, evaluate potential sources of contamination in soil and/or groundwater and further evaluate the extent of the specific groundwater plumes. The field investigation was completed in accordance with the document entitled "Agreed Order Remedial Investigation Work Plan University of Washington Tacoma Campus CPO Project No. 205062, Tacoma, Washington dated July 7, 2016 with an amendment titled "Addendum No. 1 to Agreed Order - Remedial Investigation Work Plan Implementation Phase I - 2016 to June 2017 Tacoma, Washington" dated August 4, 2016. Both documents are herein referred to as "RI Work Plan."

The purpose of this report is to summarize the RI field activities performed in 2016 and identify additional data gaps and potential changes to the remaining RI scope of work outlined in the RI Work Plan.

1.1. Background

The UWT Campus is located north of Interstate 5 (I-5) and west of Interstate 705 (I-705) within the downtown core of Tacoma, Washington. UWT's Master Plan Campus boundary is situated on approximately 46 acres located between South 17th Street and South 21st Street and between Tacoma Avenue and Pacific Avenue. The extent of the UWT Campus is shown on Figure 1.

The University of Washington (UW) entered into an Agreed Order (No. DE 97HW-S238) with the Washington State Department of Ecology (Ecology) in 1997 for known contaminated soil and groundwater on the Campus. A new Agreed Order (No. DE 11081) was negotiated in 2016 between UW and Ecology for the Campus pursuant to the authority of the Model Toxics Control Act (MTCA) and Revised Code of Washington (RCW) 70.105D.050(1). The new Agreed Order was signed on July 7, 2016. UW is the only entity bound by the new Agreed Order.

A RI Work Plan was developed in 2016 in accordance with the new Agreed Order. The RI Work Plan identified the specific remedial investigation field activities to be performed in 2016 and in future years. The findings of these field activities performed in 2016 are provided in this data report.

1.2. Areas of Concern (AOCs)

Twelve AOCs were identified on the UWT Campus by UW and Ecology under the new Agreed Order. The 12 AOCs are listed in Table 1 including the chemicals of concern (COCs) for each AOC. The location of each AOC is shown on Figure 2.

The AOCs are grouped either as site-specific or area-wide contamination sources. AOCs 1 through 10 have been categorized as site-specific potential contaminant source areas. The site-specific AOCs were identified as areas where releases of dangerous wastes and dangerous constituents potentially occurred from historic operations or areas with known contaminated soil. AOC 11 and 12 are categorized as area-wide contaminated media where the source(s) is unknown at this time. AOC 11 includes the contaminated groundwater on a Campus-wide basis related to tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), trans-1,2-DCE, 1,1-DCE, vinyl chloride, t1,1,1-trichloroethane (TCA), 1,1-dichloroethane (DCA), petroleum products and other potential on-Campus and off-Campus sources.

AOC 12 includes contaminated soil (metals, petroleum, and carcinogenic polycyclic aromatic hydrocarbons [cPAHs]) on a Campus-wide basis.

2.0 2016 REMEDIAL INVESTIGATION – SUMMARY OF FIELD ACTIVITIES

This section describes the 2016 RI field activities conducted at the UWT Campus associated with the following areas of investigation:

- Soil Investigation
- Groundwater Investigation
- Stormwater System (Catch Basin/Stormwater Pipeline) Investigation

The following subsections summarize the scope of work, provide final sampling locations, and describe deviations from the RI Workplan.

2.1. General Scope of Work

Field investigation activities were completed within specific AOCs (AOCs 1, 6, 7, 8, 9, 10, 11 and 12) in 2016 as shown on Figure 2. There were no field activities associated with AOCs 2, 3, 4, and 5 in 2016. e 2016 RI field activities generally included performing the following scope of work as described in the RI Work Plan.

- A total of 30 soil borings were advanced using sonic-core drilling methods in August/September/November 2016 as summarized in Table 2. The approximate locations of the soil borings are shown on Figure 3. Each boring was converted into a permanent groundwater monitoring well following drilling activities. Field screening of soil was performed including lithologic logging for identification of subsurface lithological conditions and potential presence and distribution of COCs. Groundwater samples were collected from 116 of the 129 wells that were accessible or where water was present in December 2016.

The table below identifies the new monitoring wells and associated aquifer in relation to the specific AOCs, if samples were collected for the area-wide soil investigation and the specific AOCs where groundwater samples were collected during the 2016 RI field investigation.

Area of Concern (Facility Identification)	Monitoring Well Installed Within Shallow Aquifer	Monitoring Well Installed Within Deep Aquifer	Collected Soil Sample	Performed Groundwater Monitoring
AOC 1 – Cragle (3713) and AOC 10 – Jet Parking (6304)	None	None	None	Yes
AOC 6 – Upton	A6-MW1S, A6-MW2S and A6-MW3S	A6-MW1D and A6- MW2D	A6-MW1D, A6- MW1S, A6- MW2D, A6- MW2S, and A6- MW3S,	Yes
AOC 7 – Tacoma Paper and Stationery (1265)	A7-MW1S and A7- MW2S	A7-MW1D	None	Yes

Area of Concern (Facility Identification)	Monitoring Well Installed Within Shallow Aquifer	Monitoring Well Installed Within Deep Aquifer	Collected Soil Sample	Performed Groundwater Monitoring
AOC 8 – Derville	None	None	None	Yes
AOC 9 – Kelly Parcel (6305) (South 19 th Street and Fawcett Avenue)	A9-MW1S	A9-MW1D	A9-MW1D, A9- MW1S,	Yes
AOC 11 - Area-Wide Groundwater (986)	A11-MW1S, A11- MW2S, A11-MW6S, A11-MW7S, A11- MW8S, A11-MW9S, A11-MW10S, A11- MW11S, A11-MW12S, UG- MW4S and UG-MW27S	A11-MW1D, A11- MW2D, A11-MW3D, A11- MW5D, A11-MW7D, A11- MW10D, A11-MW11D, A11- MW12D and UG-MW36D	A11-MW9S A11- MW10S, A11- MW10D, A11- MW11D, UG- MW36D, UG- MW4S	Yes

- Fourteen stormwater manholes and three catch basins were observed to evaluate for the presence of groundwater influx into the respective stormwater system during the December 2016 groundwater monitoring event. Six water samples were collected from the stormwater system through the manholes for chemical analysis. One water sample was collected from one of the catch basins for chemical analysis.
- A total of seven water, 119 groundwater, and 250 soil samples were analyzed for the chemical analysis identified in the RI Work Plan. Chemical analysis consisted of volatile organic compounds (VOCs) or halogenated VOCs (HVOCs) by United States Environmental Protection Agency (EPA) method 8260C (224 soil samples, 119 groundwater samples, and seven water samples); petroleum hydrocarbon identification by Ecology-approved method NWTPH-HCID (27 soil samples); gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx (three soil samples, 30 groundwater samples, and one water sample); diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWPTH-Dx (nine soil samples, six groundwater samples, and one water sample); polycyclic aromatic hydrocarbons (PAHs) by EPA method 8270DSIM (27 soil samples, one groundwater sample); Resource Conservation Recovery Act (RCRA) metals by EPA method 6000/7000 series (33 soil samples); lead by EPA method 200.7 (two groundwater samples).
- A total of 14 soil samples were submitted for physical analysis. Laboratory analysis consisted of grain size distribution by ASTM International (ASTM) method D 421/D422 (14 samples); pH by EPA method 9045D (12 samples); bulk density by ASTM method D 7263, Method B (12 samples); total organic carbon by SM 9060 (12 samples); and porosity by United States Army Corp of Engineers Engineering Method (EM) method 1110-2-1906 (three samples).
- Downhole transducers were installed in 10 select monitoring wells located throughout the campus in October 2016 to monitor seasonal groundwater levels. Data collected from the transducers and stored in the datalogger were downloaded in December 2016. Transducers continue to collect groundwater information on a daily frequency.
- One snapshot water level measurement was collected of the accessible wells in December 2016.

- A location and elevation survey was performed on the new permanent monitoring wells installed in 2016 to identify the well location and elevation (top of each well casing) to a specific elevation datum.

2.2. Field Investigation and Chemical Analytical Program

GeoEngineers performed the 2016 field investigation activities from July through December 2016. The field investigation was performed to collect additional data within the various media (soil, groundwater, and water) as it relates to the chemicals of concern and hydrogeological conditions on the UWT campus and further upgradient, as applicable. Thirty sonic-core soil borings completed in 2016 were converted into permanent groundwater monitoring wells. The 2016 RI investigation also included collection of groundwater samples from existing and new accessible monitoring wells, survey and sampling of catch basins including select stormwater system locations through the manholes, and hydrogeological testing and survey of new well locations.

Relevant information for each boring are summarized in Table 2. The boring locations are shown on Figure 3. Field protocols and borings logs are described in Appendix D.

2.2.1. Soil Sampling and Analysis

Soil samples were collected from the 30 soil borings completed for chemical and physical analyses. Soil samples were obtained from the soil borings using mechanical methods during the subsurface investigation. Boring locations are shown on Figure 3. A summary of the chemical and physical analysis performed on soil and groundwater samples is provided in Table 3.

Sonic-core drilling techniques involved advancement of an 8-inch to 10-inch-diameter casing include collection of soil samples using a 6-inch to 8-inch-diameter core barrel. The core samples were continuously collected in either 5-foot or 10-foot sample intervals. The outer casing was telescoped with an inner casing when the interpreted silt layer and shallow aquifer were observed during drilling. The core barrel was advanced ahead of the casing into the undisturbed soil deposits. Soil samples collected in the core barrel were retrieved and then extruded for examination by a GeoEngineers representative to evaluate soil conditions including field screening tests.

Soil samples were generally collected in accordance with the RI Work Plan SAP/QAPP. The soil samples collected were logged by a GeoEngineers representative on a boring log form following the ASTM D 2487 Unified Soil Classification System (USCS) and ASTM D 2488 Visual-Manual Procedure. The boring logs prepared as part of the 2016 RI field activities are provided in Appendix A.

Soil samples collected for chemical analysis at each location were thoroughly homogenized and then placed in laboratory-supplied sample containers (i.e., glass jars). Volatile samples were collected using the EPA 5035 sampling methodology. The soil samples were logged on a chain-of-custody form and placed in coolers with ice for transport and delivery to the analytical laboratory.

2.2.1.1. Soil Sample Strategy and Analyses

A total of 250 soil samples were submitted for chemical analysis. Soil samples were analyzed for the following COCs in general accordance with the RI Work Plan and summarized in Table 3:

- Soil samples submitted for analysis of HVOCs by EPA method 8260C were generally collected from below the water table at every 5-foot depth interval and from above the water table at every 10-foot depth interval in most of the soil borings. Soil samples were submitted for chemical analysis from one

boring when borings were adjacent (well pairs) with a few exceptions. The three exceptions being from shallow wells A11-MW1S, A11-MW7S and A6-MW1S that are located directly downgradient of potential contaminant sources.

- Soil samples collected within the fill material on UWT properties were submitted for analysis of petroleum-hydrocarbon identification by Ecology-approved method NWTPH-HCID and appropriate follow-up of gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx and diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWPTH-Dx, PAHs by EPA method 8270DSIM and RCRA metals by EPA method 6000/7000 series to evaluate the presence and vertical extent of contaminated soil near the surface. Soil samples collected from borings located within the right-of-way (ROW) were not analyzed for these chemicals of concern.
- Soil samples collected from two borings located within AOC 9 were analyzed for petroleum-hydrocarbon identification by Ecology-approved method NWTPH-HCID and appropriate follow-up of diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWPTH-Dx because of the chemicals of concern in AOC 9.

Select soil samples were collected from each soil type observed in borings A6-MW1D, A9-MW1D, and UG-MW36D for physical analyses as described in the RI Work Plan with the exception of boring A7-MW1D due to an error during the drilling activities. Additional soil samples were collected in the area of boring A7-MW1D during future RI field investigation activities. Laboratory analysis consisted of grain-size distribution by ASTM method D421, pH by EPA method 9045D, bulk density by ASTM method D 7263 Method B, total organic carbon by SM 9060A, and porosity by EM method 1110-2-1906.

2.2.2. Well Installation

A total of 30 permanent monitoring wells were installed within select AOCs to further evaluate groundwater conditions. The locations of the new wells are shown on Figure 3. Seventeen permanent monitoring wells were installed within the shallow aquifer. Thirteen permanent monitoring wells were installed within the deep aquifer.

Monitoring well installation strategy for the RI investigation typically includes placing a shallow well and a deep well separate but relatively adjacent to each other (well pairs) to evaluate groundwater conditions within each aquifer at proximal locations. Monitoring wells were completed as pairs during the 2016 RI investigation with the exception of wells A11-MW8S and A11-MW9S (where well pairs are planned in the future) and A11-MW5D and A11-MW6S (where well pairs are not planned in the future) as identified in the RI Work Plan.

Well installation methodology is summarized in Appendix A. The screen interval depths, lithology and elevations are summarized in Table 2.

2.2.3. Well Development

Each new groundwater monitoring well was developed prior to performing the groundwater sampling event. Well development was completed to remove water that may have been introduced into the well during drilling, stabilize the sand pack and formation materials surrounding the well screen and restore the hydraulic connection between the well screen and the surrounding soil. The well development protocol is summarized in Appendix A.

2.2.4. Monitoring Wells Sampling and Chemical Analysis

Groundwater samples were collected from a total of 116 existing and new monitoring wells in December 2016. The monitoring well locations are shown on Figure 3. The monitoring wells sampled included the 27 of the 30 new wells and 89 existing wells to evaluate groundwater conditions. Groundwater samples were not collected from the following wells for the stated reason:

- New wells A11-MW1S, A11-MW2S, A7-MW2S and existing well Y-MW4S because groundwater was not observed in the well.
- Wells UG-MW5, UG-MW10, UG-MW11, UG-MW15 because were unable to open the well monument. Prior to future sampling events these well monuments should be replaced.
- Well Y-MW6S because the well pump did not fit down the well due to the angle of the well monument reset during construction of the UWT Y Student Center. Sampling of monitoring well is not necessary based on proximity of Y-MW7S in the area.
- Well UG-MW34 because the well was buried in 2 to 3 feet of soil during construction of the UWT Y Student Center. This well should be raised to the current grade prior to performing future sampling events.

Two rounds of groundwater sampling were completed in monitoring wells A6-MW2S and A6-MW2D to confirm the chemical analytical results from the first round of sampling. A grab groundwater sample was collected while drilling in well A11-MW7D from a depth of 18.5 to 21 feet below ground surface (bgs) due to artesian conditions observed during drilling activities.

2.2.4.1. Groundwater Sample Collection Methodology

Groundwater sampling activities were completed at least 72 hours following well development. Groundwater depths were measured and recorded upon initiation of sampling at each well using an electronic water level indicator.

Groundwater well purging and sample collection was completed using low-flow/low-turbidity sampling techniques to minimize the suspension of sediment in the groundwater samples. Each well was purged at a rate of 0.5 liters per minute or less. A water quality measuring system (i.e., YSI Professional Plus) with a flow-through cell was used to monitor water quality parameters during purging including pH, electrical conductivity, dissolved oxygen, temperature, and oxidation-reduction potential. Turbidity was measured using a separate turbidimeter (Hach 2100P or LaMotte 2020e). Samples were collected from the wells after the water quality parameter measurements varied by less than 10 percent on three consecutive readings. The water quality parameters measured in the field were documented on field logs.

Groundwater samples were collected using dedicated polyethylene tubing and a bladder pump. Groundwater samples were collected into laboratory-prepared containers following completion of the well purging. The samples collected for analysis of dissolved parameters were filtered in the field using disposable 0.45-micron filters. The groundwater samples were logged on the chain-of-custody form and placed in coolers with ice for transport and delivery to the analytical laboratory.

2.2.4.2. Groundwater Analytical Program

The groundwater analytical program was developed to identify the chemicals of concern within the new permanent wells installed as part of this investigation and the existing permanent wells based on the

historic analytical data. The groundwater analytical program is briefly listed below and summarized in Table 3. Analysis performed on existing monitoring wells consisted of the following based on the chemical of concern in the area:

- VOCs by EPA method 8260B.
- HVOCs by EPA method 8260B.
- Diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx.
- Gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx.
- Lead by EPA method 200.7.
- PAHs by EPA method 8270 SIM.

2.2.5. Stormwater System Survey (Catch Basins and Stormwater Piping), Sampling and Chemical Analysis

Stormwater manholes and catch basins were surveyed for the presence of water within the stormwater systems in December 2016 with a follow-up survey of one catch basin in May 2017. The manholes were located along the stormwater utility line as shown in Table 4. The catch basins were located in front of two Potential Sources #13 (Machine Shop) and #14 (Auto Repair, Machine Shop, Diaper Service, Upholstery) where it appears building drains discharge into the catch basins (Figure 15). We were unable to open one manhole located at South 21st Street and Yakima Avenue. Therefore, the stormwater piping interior was not surveyed at this location during this event.

The purpose of the survey was to evaluate for the presence of groundwater influx and if the utilities may be providing a preferential pathway for migration of the groundwater. The survey was completed after at least 24 hours of less than 0.1 inch of rainfall. The survey consisted of measurement of the water flow observed and collection of water samples for chemical analysis. The results of the survey are generally summarized below and described in more detail in Table 4. The location of the manholes surveyed are shown on Figure 3. The results of the chemical analysis are included in Section 5.0.

- Water was observed in the manholes accessed except the manholes located at the intersection of South 19th Street Stairs and the Prairie Line Trail (MH6767257) and at the intersection of South 21st Street and Court F (MH6774945). Flow was measured in four manholes ranging between 0.2 to 1 cubic foot per second. The water flow was minimal in the remainder of the manholes as a measurement could not be collected. Water samples were collected within the stormwater piping at six manholes locations for chemical analysis of HVOCs. Water samples were unable to be collected from the remaining five manholes where water was observed due to accessibility and limited water flow.
- Three catch basins were observed along Market Street between near Potential Sources #13 and #14. Two of the three catch basins were mapped (CB6512234 and CB6522217) and identified in the RI Work Plan for a stormwater survey. The third catch basin observed between CB6512234 and CB6522217 was added into 2016 survey. The survey and sampling results are described below:
 - Catch basin CB6512234 was surveyed in December 2016. Two pipes were observed inside the catch basin. A smaller pipe (approximately 4 inches in diameter) was observed on the west side and appeared to be directed into the vacant lot to the west. Minimal water was observed to be discharging from the pipe. A larger pipe was observed on the east and appeared to be connected to the main stormwater system. A water sample was collected at the base of the catch basin because we were unable to collect one from the discharging pipe due to minimal

flow in December 2016. The water sample from CB6512234 was submitted for chemical analysis of petroleum hydrocarbons and VOCs.

- The third unidentified catch basin was surveyed in December 2016. The catch basin was observed to be filled with soil with no pipes observed inside the catch basin. This catch basin was initially confused for catch basin CB6522217 during the December 2016 field investigation.
- Catch basin CB6522217 was actually surveyed in May 2017 due to confusion regarding the central catch basin in December 2016. Three pipes were observed inside the catch basin. Two smaller pipes (approximately 4 to 5 inches in diameter) were observed on the west side. One pipe appeared to be directed west toward the building identified on Potential Source #14 property. A second pipe appeared to be directed to the northwest. A larger pipe was observed on the east and appeared to be connected to the main stormwater system. Water was not observed to be discharging from the pipes during the May 2017 inspection.

2.2.6. Hydrogeological Testing

Hydrogeological testing consisted of installation of transducers in select monitoring wells and performing a snapshot water level measurement event.

2.2.6.1. Snapshot Water Level Measurements

Groundwater levels were measured within the existing monitoring wells in December 2016. The groundwater level measurements were performed within a 6-hour period to provide a snapshot of groundwater levels. The water level measurement protocol is summarized in the field program included in Appendix A. The groundwater elevations were used to develop groundwater contour maps to evaluate groundwater flow direction and gradient. The results from the snapshot water level measurements are presented in Section 4.0.

2.2.6.2. Transducers

Transducers were installed in 10 select monitoring wells (A6-MW1S, A6-MW1D, A7-MW1S, A7-MW1D, A11-MW3D, A11-MW6S, A11-MW11S, A11-MW11D, A11-MW12S and A11-MW12D) in October 2016. The select well are located throughout and upgradient of the campus. The transducers continue to measure water levels every 10 minutes until the transducers are removed. Data on the transducers were downloaded in December 2016. The data obtained from the transducers and associated precipitation were evaluated for preliminary interpretations based on the limited data set. The evaluation is summarized in Section 4.0.

2.2.7. Well Repair and Decommissioning

The top of casing in two wells (JS-MW3 and JS-MW3S) were lowered then raised to the new asphalt surface to accommodate construction of a City of Tacoma project along Jefferson Avenue.

2.2.8. Monitoring Well Surveying

AHBL was retained to survey the monitoring wells installed by GeoEngineers in 2016, replacement well UG-MW37R installed in 2015, and raised wells JS-MW3 and JS-MW3S in 2016 during street construction. The survey consisted of elevation and coordinates of the wells casing and monument rim. The results of the survey are included in Table 2.

2.3. Data Validation

Data validation was completed consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008) and Inorganic Superfund Data Review (USEPA 2010) (National Functional Guidelines) to evaluate if the laboratory analytical results meet the project objectives and are usable for their intended purpose.

The laboratory followed the specified analytical methods based on an evaluation of this data validation. Accuracy was acceptable, as demonstrated by the surrogate, laboratory control sample (LCS)/laboratory control sample duplicate (LCSD), and matrix spike (MS)/matrix spike duplicate (MSD) percent recovery values. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate relative percent difference (RPD) values. Qualified data is noted in the tables and summarized in Appendix B.

2.4. Deviations from Work Plan

The following deviations from RI Work Plan were implemented during the 2016 remedial investigation.

- The aquifer pumping test at the intersection of South 19th Street and Fawcett Avenue was delayed indefinitely. The purpose of this pumping test was to evaluate the connection between the shallow and deep aquifers in the area because wells UG-MW16 and UG-MW17 appeared to be screened within the deep aquifer.

The silt layer was observed below the bottom of UG-MW16 and UG-MW17 following installation of wells A9-MW1D and A9-MW1S. Groundwater sampling results indicated the TCE concentrations varied by an order of magnitude within the shallow aquifer as compared to the deep aquifer. The pumping test was delayed because of a concern of cross contamination between the two aquifers. The need for this pumping test will be evaluated in the future.

- Monitoring well A11-MW4S was not installed due to access, utilities and safety concerns. Well A11-MW4S was to be located near South 19th Street and Yakima Avenue. The transducer planned to be installed in this well was installed in well A11-MW6S.
- No physical samples were collected from A7-MW1D due to an error in the field. Physical samples will be collected in this area during future sampling.
- Well A6-MW1S was installed as a 2-inch diameter well instead of a 4-inch well due to an error in the field. The smaller well diameter should not be an issue for completing a pumping test in the future because the well is screened within the shallow aquifer.
- Groundwater was not sampled in wells A11-MW1S, A11-MW2S, A7-MW2S, UG-MW5, UG-MW10, UG-MW11, UG-MW15, UG-MW34, Y-MW6S, and Y-MW4S due to reasons discussed in Section 2.2.4.
- The manhole identifications numbers identified in the RI Work Plan were not accurate per City of Tacoma records. The updated manhole identification numbers are shown on Figure 3 and Table 4.
- The groundwater sample collected from well PL-MW1 was inadvertently not submitted for gasoline-range petroleum hydrocarbons.
- The stormwater survey was completed in December 2016 during the groundwater monitoring event, instead of July 2016 as identified in the RI Work Plan. We were unable to open one manhole located

at South 21st Street and Yakima Avenue because it was locked. Assistance from the City of Tacoma, may be necessary to open this manhole cover in the future.

- Catch basin CB6522217 was surveyed in May 2017 instead of December 2016 due to confusion of a third catch basin identified in December 2016 and the location of catch basin CB6522217.

3.0 SCREENING LEVELS – SOIL AND GROUNDWATER

Chemical analytical data was compared to screening levels that are summarized in the 2016 RI Work Plan. These screening levels were developed in accordance with MTCA (Washington Administrative Code [WAC] 173-340-720 through 740) to help ensure that the laboratory target reporting limits are low enough to detect contaminants at levels of concern based on protection of human health and the environment. The screening levels will also be used as the starting point for developing screening levels in the RI for use in evaluating the extent of contamination and potential risks to human health and the environment.

The screening levels were developed for those constituents that have numerical regulatory standards or toxicity data that can be used to calculate protective criteria. Soil and groundwater screening levels were developed for various pathways and all constituent analyzed at the Campus are based on the unrestricted land use scenario. The screening levels are herein referred to as the Remedial Investigation Soil Screening levels (RISSL) and the Remedial Investigation Groundwater Screening levels (RIGSL).

4.0 GEOLOGY AND HYDROGEOLOGY SUMMARY

The RI Work Plan includes a description of the geologic and hydrologic conditions as interpreted in July 2016. This section describes notable changes to the geologic and hydrogeologic conditions based on observation during the 2016 field investigations.

4.1. Geologic Summary

Geologic conditions observed in 2016 were generally similar to conditions observed during previous investigations as described in detail the RI Work Plan. Six general soil units identified on the Campus consist of fill, recent fluvial deposits, recessional outwash, ice-contact deposits, silt layer (semi-confining to confining), advance outwash and the Lawton Clay.

Updated geologic cross sections were prepared to graphically present the conditions within specific areas of the UWT campus using information provided in the boring logs during the investigations completed to date for UW. The geologic cross-section locations and associated borings used for interpretation of the geologic conditions are shown on Figure 4. The geologic cross sections are presented on Figures 5 through 12. Notable findings and changes to the geologic summary based on the information obtained during the 2016 investigation as compared to the geologic summary identified in the RI Work Plan include the following.

- **Former Drainage Channel – South 19th Street Between Fawcett Avenue and Jefferson Avenue.** Typical ice-contact deposits on the UWT Campus consist of silty gravel with sand with 1- to 5-foot-thick sand and gravel seams. The silty gravel with sand portion of the ice-contact deposits observed on the UWT Campus have approximately 20 to 30 percent fine content based on grain-size distribution analysis as noted during previous investigations. A thicker sand and gravel seam (approximately 4 to 8 percent

fine content) was observed in well A9-MW1D at a depth from 16 to approximately 41 feet bgs. The sand and gravel seam was underlain by a semi-confining to confining silt layer from approximately 41 to 48 feet bgs in boring A9-MW1D indicating the thick sand and gravel seam was actually within the ice-contact deposits. A thick sand and gravel seam interpreted to be in the ice-contact deposits was also observed from approximately 10 to 23 feet bgs in well A11-MW11D located along Jefferson Avenue approximately 300 feet east of well A9-MW1D. The thick sand and gravel seam is potentially a remnant of a former drainage channel developed during the glaciation period.

Sand and gravel seams were also observed in previously completed wells UG-MW14, UG-MW31, DD-MW1 at a depth from approximately 20 to 25 feet bgs to the depth of the boring (35 to 40 feet bgs). Wells UG-MW14, UG-MW31, DD-MW1 are located between A9-MW1D and A11-MW11D. The sand and gravel seams in wells UG-MW14, UG-MW31, DD-MW1 were previously interpreted as advance outwash, but based on the depth of the silt layer in A9-MW1D and A11-MW11D the sand and gravel seams is likely potentially part of a former glaciation drainage channel within the ice-contact deposits as shown on Figures 3, 11 and 12. It is also possible that sand and gravel seams extend to the area near boring BA-MW1 that was previously interpreted as a post-glaciation fluvial drainage channel based on proximity and soil type as shown on Figure 3.

- **Former Drainage Channel – Commerce and Tacoma Paper and Stationery (TPS) Building** - A thick sand and gravel layer was observed from 20 to 40 feet bgs in well A7-MW1D located on Commerce Street downgradient of the TPS Building as shown on Figures 3 and 6. The sand and gravel layer is currently interpreted to be within the ice-contact deposits. Well A7-MW1D, which was intended to be a deep aquifer well, but is actually screened within the sand and gravel seam of the ice-contact deposits. The sand and gravel seam within A7-MW1D is interpreted as potential former drainage channel. It is unknown if there is a connection between the potential former drainage channel at A7-MW1D and the potential former drainage channel observed in wells A9-MW1D and A11-MW11D located near South 19th Street and Market Street as discussed above. Lithologic information reviewed for the wells located directly upgradient and west of well A7-MW1D (along the B-B' cross section) do not indicate the presence of a sand and gravel layer but the former drainage channel may possibly be meandering away from this area.
- Two semi-confining layers or “silt” layers were observed overlying each other in multiple locations during this investigation:
 - Two silt layers were observed upgradient of campus between Yakima Avenue and Court G as shown on Figures 10 and 11. The silt layers are interpreted to merge at approximately South G Street because a single silt layer was observed along Tacoma Avenue. The depth of the upper silt layer ranged between 10 to 20 feet bgs. The upper silt layer was approximately 2 to 5 feet thick consisting of a silty gravel to silty sand. The lower silt layer was observed from approximately 46 and 60 feet bgs. The lower silt layer was approximately 6 to 14 feet thick consisting of gray silty sand.
 - Two silt layers were potentially observed near South 17th Street and Fawcett Avenue (boring A6-MW2D) based on a decrease in moisture content observed during drilling as shown on Figures 8 and 9. However, both silt layers contained abundant gravel indicating the layers are likely not indicative of providing confining conditions. The depth of the upper silt layer ranged between 9 to 30 feet bgs with a thickness of approximately 1 to 10 feet consisting of a silty sand with gravel in borings A6-MW1D and A6-MW2D. The lower silt layer was observed from approximately 42 and 50 feet bgs consisting of silty gravel with cobbles in boring A6-MW2D. The lower silt layer was not observed in A6-MW1D, but the depth of this boring likely did not extend to the depth of the lower silt layer.

Two potential interpretations of the geologic conditions are provided in Figures 8 and 9. For purposes of this report, the upper silt layer is considered the silt layer that separates the ice-contact deposits and advance outwash and A6-MW1S/A6-MW1D and A6-MW2S/A6-MW2D are paired wells within the shallow and deep aquifers, respectively, as shown in Figure 8. Additional investigation will be necessary to further evaluate geologic and hydrogeologic conditions in the area to confirm this assumption.

- Two silt layers were also potentially observed in boring A11-MW11D based on a decrease in moisture content observed during drilling as shown on Figures 10 and 11. However, both silt layers contained abundant gravel indicating the layers are likely not indicative of providing confining conditions. The depth of the upper silt layer was observed between 8 and 9 feet bgs consisting of a sandy silt with gravel. The upper silt layer was similar to soil conditions observed in nearby well JS-MW7A. The lower silt layer and associated transition zone was observed from approximately 30 and 45 feet bgs consisting of silt with sand and gravel to silty sand. The lower silt layer was similar to soil conditions observed in nearby well JS-MW4D. The two silt layers appear to be present above and below the sand and gravel seam discussed above.

For purposes of this report, the ice-contact deposits are interpreted to extend to the lower silt layer. The well screen for A11-MW1S (and nearby UG-MW4S) is screened above the upper silt layer. The wells screen for A11-MW11D is screened below the lower silt layer.

4.2. Hydrogeologic Summary

The general hydrogeology consists of two main water-bearing zones beneath the UWT Campus based on information obtained during the subsurface investigations completed in 2013. The two water-bearing zones are herein referred to as the shallow and deep aquifers. The shallow aquifer is present within the fill/recessional outwash/ice-contact deposits and the deep aquifer is located within the advance outwash.

The groundwater elevations and flow direction measured in December 2016 are summarized on Figures 13 and 14. Downhole transducers were installed in 10 select wells to collect groundwater data on a continuous frequency. Groundwater level data obtained from the transducers in the select wells between September and December 2016 are included in Appendix C.

Notable findings and changes to the hydrogeologic summary based on the information obtained during the 2016 investigation as compared to the geologic summary identified in the RI Work Plan include the following.

Shallow Aquifer/Perched Aquifers

- Perched aquifers may be present throughout the UWT Campus, particularly above the upper silt layers discussed in Section 4.1. The connection between the shallow aquifer and perched aquifer is not known regarding contaminate fate and transport. The shallow and perched aquifers are interpreted to be one connected aquifer in this data report based on available information to date. However, additional investigation may be necessary to further evaluate if the perched aquifer is a third contaminant transport pathway.
- The general direction of the groundwater flow within the shallow aquifer trends topographically downgradient towards the east. Groundwater within the shallow aquifer likely flows through the sand seams and interbedded gravel within the ice-contact deposits. Groundwater flow within the shallow aquifer may also be influenced by underground utilities in the area as a preferential pathway.

- It was unknown whether the screen intervals in wells UG-MW16 and UG-MW17 were placed within the shallow aquifer or deep aquifer or possibly within both. Wells UG-MW16 and UG-MW17 are now interpreted to be screened within the shallow aquifer based on the observations in wells A9-MW1D and A9-MW1S during the 2016 field activities as discussed in Section 4.1.

Furthermore, UG-MW14 was interpreted to be screened within the deep aquifer as identified in the RI Work Plan. There is a potential for well UG-MW14 to be screened within the shallow aquifer based on the silt layer elevation identified in wells A9-MW1D during the 2016 investigation and UG-MW9 during previous investigations as interpreted on Figures 11 and 12. Therefore, the screen interval for well UG-MW14 was modified to unconfirmed aquifer in this report. Additional investigation will be necessary to further evaluate the hydrogeologic conditions within the screen interval in well UG-MW14.

- Wells A11-MW1S and A11-MW2S were observed to be dry during the wet and dry seasons. Both of these wells are located off-campus to the west of the southwest corner of the UWT Campus. Well A11-MW1S is located near the South 21st Street and Tacoma Avenue South intersection and well A11-MW2S is located further west and upgradient near the South 21st Street and South Yakima Avenue intersection. This data indicates the shallow aquifer is likely not present in the off-campus area west of the southwest corner of the UWT Campus along South 21st Street.

Deep Aquifer

- The groundwater flow direction is generally to the east/northeast within the deep aquifer as shown on Figure 14. The groundwater slope/gradient, average depth and artesian/subartesian conditions change between Fawcett Avenue and Tacoma Avenue South.
 - **East of Fawcett Avenue.** The average groundwater gradient is steeper (0.11 feet vertical per foot horizontal), the deep aquifer is typically under confined conditions with artesian/subartesian conditions (based on the depth to groundwater observed during drilling as compared to the depth to groundwater observed in the wells) and the potentiometric groundwater surface ranges between artesian 1.5 feet above to the ground surface to 50 feet bgs.
 - **West of Tacoma Avenue South/Fawcett Avenue.** The average gradient is 0.05 feet vertical per foot horizontal, the deep aquifer is not subartesian (based on the depth to groundwater observed during drilling as compared to the depth to groundwater observed in the wells) and the depth of groundwater is continually deeper moving west. The depth to groundwater ranges between approximately 35 and 55 feet bgs along Tacoma Avenue and approximately 75 and 85 feet bgs along Yakima Avenue.

Connection Between Aquifers

- Groundwater level data indicate that groundwater is influenced by recharge from precipitation based on information obtained from the transducers in the select wells from October to December 2016. Groundwater levels generally respond (increase) rapidly to precipitation events in wells installed within the shallow aquifer. Groundwater levels generally showed a lower degree of groundwater fluctuation from precipitation in the shallow aquifer wells located along Commerce and Pacific Avenue near the bottom of the hill on the eastern/downgradient side of campus as compared to other monitored shallow aquifer wells located upgradient.

Groundwater levels in wells installed within the deep aquifer show a less pronounced and slightly delayed response to precipitation events. The delayed response in the deep aquifer from precipitation is not diagnostic of hydraulic connection between the shallow and deep aquifers because the mechanism of recharge to the deep aquifer is not well understood. Additional evaluation and

development of a conceptual hydrologic model (CHM) will be performed as identified in the RI Work Plan to fully evaluate the connection between the aquifers and associated recharge sources.

- A thick sand and gravel seam was observed within the ice-contact deposits near South 19th Street between Fawcett Avenue and Jefferson Avenue. The sand and gravel seam appears to possibly connect the shallow and deep aquifers near Market Street. However, an additional investigation outside of the investigations identified in the RI Work Plan is necessary to further evaluate this potential connection of the shallow and deep aquifers.
- A thick sand and gravel seam was observed within the ice-contact deposits along Commerce Street downgradient of the TPS Building. The sand and gravel seam appears to possibly connect the shallow and deep aquifers in this area. An aquifer pumping test will be performed in this general area to further evaluate the connection between these aquifers as identified in the RI Work Plan.

4.3. Geology and Hydrogeology Data Gaps

Additional data gaps identified during the 2016 field investigation include the following.

- Presence of upper and lower silt layers.
- Potential presence of perched aquifers throughout Campus, particularly above the upper silt layers. The connection is unknown between the shallow aquifer and perched aquifer including the ability for contaminant transport.
- Thick sand and gravel seams were observed along South 19th Street between Fawcett Avenue and Jefferson Avenue and downgradient of the TPS Building. The connection is unknown between the shallow aquifer and perched aquifer including the ability for contaminant transport.
- Potential connection between the shallow and deep aquifers near South 19th Street and Market Street and downgradient of the TPS Building.

5.0 2016 FIELD INVESTIGATION ACTIVITIES - RESULTS PRESENTED BY AOC

This section describes the findings of the subsurface investigation completed in 2016 and associated data gaps identified based on the findings. The term “contaminated” indicates the chemical of concern was detected at a concentration greater than the RIGSL and RISSL identified in the RI Work Plan. The findings are summarized by relevant AOC in the following subsections.

5.1. AOC 1 - Cragle Parcel and AOC 10 - Jet Parking Parcel

AOC 1 (Cragle Parcel) and AOC 10 (Jet Parking Parcel) are located near the southern portion of the UWT Campus boundary. AOC 1 and AOC 10 have been combined into one section because of the proximity of these sites and similar environmental histories.

The Cragle Parcel is situated within the southeast corner of the Campus. The Cragle Parcel is bounded by the Prairie Line Trail to the west, ‘C’ Street to the east, South 21st Street to the south, and the Snoqualmie Library to the north. The Jet Parking Parcel is situated on the southern boundary of the Campus. The Jet Parking Parcel is bounded by Jefferson Avenue to the west, the Prairie Line Trail to the east, South 21st Street to the south, and the Tioga Building to the north. The Cragle Parcel and Jet Parking Parcel are shown in relation to the UWT Campus boundary and other AOCs on Figures 2 and 15.

Historical activities on both parcels consisted of fuel yards and other various businesses. The Cragle Parcel was also a hazardous waste treatment, storage and disposal (TSD) facility from 1982 to 1986. Remedial activities of petroleum-contaminated soil were completed on the Cragle Parcel in the 1990's. The excavated soil was placed on the Jet Parking Parcel to land farm and aerate the petroleum-contaminated soil. The remediated soil was subsequently used as fill (up to 15 feet thick) for the construction of the existing Jet Parking Parcel lot.

Residual gasoline-range petroleum hydrocarbons and benzene contamination were detected in soil and groundwater on the Cragle Parcel. Remnant petroleum byproducts were detected in fill soil on the Jet Parking Parcel. Gasoline-range petroleum hydrocarbons, benzene, and chlorobenzene were identified in groundwater on and upgradient of the Jet Parking Parcel.

5.1.1. Scope of Remedial Investigation

Groundwater monitoring was performed in 20 of the 24 wells located within AOC 1 and AOC 10 in December 2016 as summarized in Table 3 and shown on Figure 15. Groundwater samples were not collected from four wells (UG-MW5, UG-MW10, UG-MW11 and UG-MW15) because the well monuments could not be opened. Additional subsurface investigation was not completed within AOC 1 and AOC 10 in 2016.

Three catch basins situated on the west side of Market Street were observed to evaluate the inlet drains for potential connection from the two adjacent upgradient buildings to the west. These buildings are potential contaminant sources (Potential Sources #13 and #14 as shown on Figure 15). One water sample was collected from one catch basin (CB6512234) where water was observed flowing into the catch basin.

Groundwater samples were submitted for chemical analysis of gasoline-range petroleum hydrocarbons and BTEX to further evaluate and monitor the contaminant plumes in this area with one exception. The groundwater sample collected from PL-MW1 was inadvertently not submitted for chemical analysis of gasoline-range petroleum hydrocarbons. One catch basin sample was collected and analyzed for chemical analysis of BTEX, chlorobenzene, and gasoline-, diesel- and oil-range petroleum hydrocarbons. The groundwater samples collected within AOC 10 (Jet Parking Lot and Market Street) were also analyzed for chlorobenzene. Additional chemical analysis TCE, 1,1-DCE, trans-1,2-DCE and cis-1,2-DCE, vinyl chloride and diesel-range petroleum hydrocarbons but are discussed in AOC 11 - Other UWT Locations - Groundwater in Section 5.6.

5.1.2. Results of Investigation

In general, the December 2016 groundwater monitoring results were similar to the July 2013 groundwater monitoring results except as noted below. The specific chemical analytical results are summarized in Tables 5 and 7 and shown on Figure 15. The RIGSL for benzene is 2.4 µg/L, for chlorobenzene is 100 µg/L and for gasoline-range petroleum hydrocarbons is 800 µg/L. Significant notable exceptions during the 2016 field investigation include:

- **Well CR-MW9** – This well is located within the former Cragle parking lot in an area where gasoline-contaminated soil was partially remediated in the 1990's. The benzene and the gasoline-range petroleum hydrocarbon concentrations decreased significantly between 2013 and 2016. The benzene concentration decreased from 130 µg/L in 2013 to 11 µg/L in 2016. The gasoline-range petroleum concentration decreased from 3,300 µg/L in 2013 to 650 µg/L in 2016. In 2016, the detected

benzene concentration was greater than the RIGSL, but the gasoline concentration was less than the RIGSL.

Minor notable exceptions during the 2016 field investigation include:

- **Well CR-MW8** – This well is located adjacent to well CR-MW9. Benzene was detected at a concentration (1.9 µg/L) less than the RIGSL in 2013, but decreased to not detected in 2016.
- **Well UG-MW6** – This well is located within Market Street. The gasoline-range petroleum hydrocarbons decreased in concentration (890 µg/L) from greater than the RIGSL in 2013 to a concentration (790 µg/L) slightly less than the RIGSL in 2016.
- **UG-MW2R** – This well is located within the northern portion of the Jet Parking Lot. Chlorobenzene was detected at low levels (0.34 µg/L) in 2016 where it has not been detected during previous sampling events. Chlorobenzene was detected at a concentration in 2016 significantly less than the RIGSL.

The remaining 2016 analytical results were similar to the 2013 sampling results.

5.1.3. Conclusions and Potential Changes to RI Work Plan

The groundwater results in 2016 are relatively similar to the 2013 results except for well CR-MW9 where the benzene and gasoline-range petroleum hydrocarbon concentrations decreased significantly. The analytical results of the water sample collected in catch basin CB6512234 indicate chemicals of concern are not present in the water. The results cannot rule out the Potential Source #13 because the pipe orientation/connection is unknown. Access to the property will be necessary in order to correctly map the pipe observed within the catch basin. Additional sampling of the water in both catch basins is recommended during future groundwater monitoring events.

Additional data gaps were not identified during the 2016 field investigation. Additional borings and wells are planned to further evaluate the soil and groundwater conditions as described in the RI Work Plan. Groundwater monitoring is planned to continue as described in the RI Work Plan. Repairs to wells UG-MW5, UG-MW10, UG-MW11 and UG-MW15 will be necessary to continue groundwater monitoring of these wells. Per the RI Work Plan, semi-annual groundwater monitoring of the existing wells will continue when UW can secure funding to perform these activities. UW may be considering modifying this schedule based on funding and the anticipated timeline of completion of the RI/Feasibility Study (FS). We recommend at least two years of semi-annual monitoring prior to completion of the RI/FS.

5.2. AOC 6 - Upton Parcel

AOC 6 (Upton Parcel) is situated in the northwest corner of the Campus. The Upton Parcel is bounded by Tacoma Avenue to the west, Court E to the east, undeveloped and vacant parcels to the south, and South 17th Street to the north. The Upton Parcel is shown in relation to the Campus boundary and other AOCs on Figure 2.

The UWT Y property is located directly downgradient of the Upton Parcel at South 17th Street and Market Avenue. A former dry cleaner operated on the Upton Parcel between 1961 and the early 1970s. Upton Electric (sales and rental) operated at the property from 1974 to 1988 including an expansion of the building into the current footprint. The Upton Parcel was purchased by UW in the 1990s.

These sections describe the 2016 remedial investigation activities performed near the Upton Parcel and a general analysis of the results.

5.2.1. Scope of Remedial Investigation

A total of five wells were installed near the Upton Parcel in 2016 to further evaluate the geology and extent of the PCE- and TCE-contaminated groundwater plume. Three wells (A11-MW1S, A11-MW2S and A11-MW3S) were installed within the interpreted shallow aquifer and two wells (A11-MW1D and A11-MW2D) were installed within the interpreted deep aquifer. Well pair A6-MW1S and A6-MW1D was moved to a location east of the area shown in the RI Work Plan due to access constraints from overhead utilities and steep slopes. Well pair A6-MW2S and A6-MW2D was moved to a location to the west shown in the RI Work Plan due to underground utility conflicts. The final locations of the wells are shown on Figure 16.

Soil samples were collected from every 5- to 10-foot depth interval in borings A6-MW1S, A6-MW1D, A6-MW2D and A6-MW3S for chemical analysis of HVOCs.

Groundwater monitoring was performed for accessible new and existing wells that include A6-MW1S/A6-MW1D, A6-MW2S/A6-MW2D, A6-MW3S, UG-MW26, UG-MW33, UG-MW29S, UG-MW28, Y-MW1S/Y-MW1D, Y-MW2S, Y-MW3S/Y-MW3D, and Y-MW7S. Groundwater samples were submitted for chemical analysis of HVOCs.

A groundwater sample was not collected from well Y-MW4S because the well was observed to be dry. A groundwater sample was not collected from well Y-MW6S because the pump did not fit inside the existing monument. Two groundwater samples were collected from wells A6-MW2S and A6-MW2D to confirm the initial chemical analytical results.

5.2.2. Results of Investigation

This section provides an interpretation of the geologic and hydrogeologic conditions and the chemical analytical results for AOC 6 - Upton Parcel based on the 2016 findings. The groundwater chemical analytical results and well locations are shown on Figure 16 and a cross section with geology and general chemical analytical results for PCE and TCE are shown on Figure 9. The chemical analytical data is summarized in Tables 5 and 6.

5.2.2.1. Site Geology and Hydrogeology

The geologic sequence (fill, ice-contact deposits, silt, advance outwash) identified on the UWT Campus was generally observed in borings A6-MW1S/A6-MW1D, A6-MW2S/A6-MW2D and A6-MW3S. However, an obvious silt layer was not observed in borings A6-MW1S/A6-MW1D and A6-MW2S/A6-MW2D. The geologic interpretation is described in detail below and shown on Figures 8 and 9.

- Approximately 5 to 10 feet of fill was observed near the ground surface consisting of mix of sand, silt and gravel with reworked ice-contact deposits near the base of the fill in the five soil borings completed in 2016. Ice-contact deposits were observed beneath the fill consisting of silty sand with gravel to silty sand with seams of sand and gravel. Two potential semi-confining silt layers (identified as upper and lower) were observed in boring A6-MW2D as shown on Figures 8 and 9. These two potential silt layers were noted on the boring log based on a decrease in moisture content observed during drilling. Both silt layers contained abundant gravel and did not appear competent or providing confining conditions.

The upper silt layer consisted of a silty sand with gravel to a depth ranging between 9 and 30 feet bgs with a thickness of approximately 1 to 10 feet thick in borings A6-MW1D and A6-MW2D.

The lower silt layer was only observed in boring A6-MW2D from approximately 42 and 50 feet bgs. The lower silt layer consisted of silty gravel with cobbles. Additionally, gravel with sand, sand, cobbles and abundant water was observed from approximately 50 to 70 feet bgs in boring A6-MW2D. The lower silt layer was not observed in A6-MW1D as the depth of this did not appear to extend to the depth of the lower silt layer.

- Two potential interpretations of the geologic conditions are provided on Figures 8 and 9. For purposes of this report, the upper silt layer is considered a semi-confining silt layer and forms the base of the ice-contact deposits as shown on Figure 8. However, if the lower semi-confining silt layer is the base of the ice-contact deposits then three aquifers (perched, shallow, deep) may be present in the area for contaminant transport purposes as shown on the alternative interpretation in Figure 9. The connection between the three potential aquifers and the ability for contaminant transport is unknown.

Wells A6-MW1S, A6-MW2S and A6-MW3S were screened at depths above the upper silt layer, which is currently considered the shallow aquifer. Groundwater was observed at depths ranging between approximately 7 and 10 feet bgs in these wells.

Wells A6-MW1D and A6-MW2D were screened beneath the upper silt layer, which is currently considered the deep aquifer. Groundwater was observed at 31 feet bgs in well A6-MW1D and 13 feet bgs in well A6-MW2D. Groundwater observed in the deep aquifer does not appear to be under a subartesian condition based on the elevation of the water observed in the wells versus the elevation of the water observed during drilling.

5.2.2.2. Chemical Analytical Results

The chemical analytical results are described below by well and presented in Tables 5 and 6. The RISSL for PCE is 0.054 mg/kg (vadose zone)/0.0027 mg/kg (saturated zone) and TCE is 0.001 mg/kg (vadose zone)/0.0001 mg/kg (saturated zone). The RIGSL for PCE is 5 µg/L; TCE is 1.6 µg/L; and cis-1,2-DCE is 16 µg/L.

A6-MW1S/A6MW1D. Wells A6-MW1S/A6-MW1D are located directly downgradient of the Upton Parcel. PCE was detected at concentrations greater and less than the RISSL in the soil samples from approximately 10 to 24 feet bgs. TCE was detected in soil samples collected from approximately 14 to 45 feet bgs (bottom of boring).

PCE and TCE were detected in groundwater at concentrations greater than the RIGSL (7.2 and 1.7 µg/L, respectively) within the shallow aquifer (A6-MW1S). TCE was detected in groundwater sample collected from A6-MW1D at a concentration (60 µg/L) greater than the RIGSL and significantly greater than the concentration within A6-MW1S. PCE was not detected in groundwater within the deep aquifer.

A6-MW2S/A6-MW2D. Wells A6-MW2S/A6-MW2D are located downgradient of the Upton Parcel approximately 120 feet south of well pair A6-MW1S/A6-MW1D. PCE and TCE were not detected in groundwater samples collected from both the shallow and deep aquifers. However, soil analytical results indicate that TCE was detected in the soil samples collected between 14 and 31 feet bgs. Some of these soil samples were collected within the screen interval of well A6-MW2D.

A6-MW3S. Well A6-MW3S (shallow aquifer) is located directly upgradient of the Upton Parcel. PCE and TCE were not detected in the soil and groundwater samples collected from this well.

Y Shallow Aquifer Wells (UG-MW28, UG-MW29S, Y-MW1S, Y-MW2S, Y-MW3S, and Y-MW7S). The shallow aquifer wells are located on the perimeter of the new UWT Y Student Center. The detected TCE concentrations were similar to the concentrations detected in 2013 prior to construction of the Y Student Center, with the exception of Y-MW3S and Y-MW7S. The TCE concentrations in Y-MW3S increased from less than the RIGSL (1.2 µg/L) in 2013 to greater than the RIGSL (7.6 µg/L) in 2016. The TCE concentrations decreased in well Y-MW7S from 45 µg/L in 2013 to 12 µg/L in 2016.

Y Deep Aquifer Wells (Y-MW1D and Y-MW3D). The existing deep aquifer wells are located downgradient of the new UWT Y Student Center. TCE concentrations increased from not detected in 2013 to concentrations less than the RIGSL in both Y-MW1D (0.23 µg/L) and Y-MW3D (0.97 µg/L) in 2016. TCE concentrations in the deep aquifer are one to two orders of magnitude less than the TCE concentrations within the shallow aquifer at the UWT Y Student Center.

5.2.3. Conclusions and Potential Changes to RI Work Plan

The geologic and hydrogeologic conditions are not fully understood in the area of AOC 6 - Upton. Two potential semi-confining silt layers with gravel were observed during drilling. The silt layers were identified due to decreased moisture in the soil during drilling but did not appear competent and fully confining. For purposes of this report, the upper silt layer is interpreted as the base of the ice-contact deposits. However, an alternative interpretation is provided that the lower silt layer is the base of the ice-contact deposits. If the lower silt layer is interpreted as the base of the ice-contact deposits then three aquifers (perched, shallow and deep) may be present. Additional investigation is warranted to further evaluate if this condition may exist within AOC 6.

PCE- and TCE-contaminated groundwater are present in the interpreted shallow aquifer. The results indicate that Upton is likely a source of the PCE and TCE in the shallow aquifer. However, the lateral extent of the PCE and TCE within the shallow aquifer is unknown. TCE-contaminated groundwater is present in the interpreted deep aquifer. However, the source and lateral extent of the TCE-contaminated groundwater is unknown. The TCE concentration detected within the deep aquifer is an order of magnitude greater than the TCE concentration detected within the shallow aquifer.

The PCE and TCE-contaminated groundwater do not appear to extend to wells A6-MW2S/A6-MW2D based on the groundwater sampling results. However, TCE was detected in the soil above and within the screened interval for A6-MW2D. Typically, if TCE is detected in soil samples then TCE is also detected in groundwater at each location based on historic analytical data collected within the UWT Campus.

The source of the TCE in the shallow aquifer at the UWT Y Student Center and the connection to the Upton TCE plume is still not known. It does not appear the plumes are connected based on the groundwater results in groundwater samples collected from A6-MW2S and A6-MW2D. However, additional investigation is necessary to further evaluate and understand the geologic and hydrogeologic conditions in this area.

The RI Work Plan identifies additional monitoring wells (two deep and four shallow wells) to be installed in the Upton area. Additional investigation outside of the RI Work Plan will be necessary to address the following data gaps:

- Extent of the PCE/TCE groundwater plume in the deep aquifer.
- Groundwater conditions where TCE was detected in the soil samples collected adjacent to Fawcett Avenue (A6-MW2S/A6-MW2D).
- Assumption that the upper silt is the base of the ice-contact deposits and the presence of the perched aquifer.

UW may consider delaying well installation and complete a series of soil borings with chemical analysis to evaluate the location of PCE and TCE in the soil given the lack of definite silt layer observed in this area. Monitoring well screens would be installed in a follow-up investigation in areas based on the chemical analytical results from the soil borings. This would enable the well screen intervals to be placed at the appropriate depths in future wells based on chemical analytical results and geologic conditions observed during the soil boring investigation.

Per the RI Work Plan, semi-annual groundwater monitoring of the existing wells will continue when UW can secure funding to perform these activities. UW may be considering modifying this schedule based on funding and the anticipated timeline of completion of the RI/Feasibility Study (FS). We recommend at least two years of semi-annual monitoring prior to completion of the RI/FS.

The extent of the shallow TCE groundwater plume appears to be present at concentrations greater than the RIGSL protective of indoor air beneath the Upton Building based results in the downgradient well (A6-MW1S). Additional evaluation may be necessary to evaluate the potential for vapor intrusion into this building.

5.3. AOC 7 – Tacoma Paper and Stationery

AOC 7 is located on the southern portion of the 1806 Jefferson Street Association Parcel within the north-central portion of the Campus. The four-story Tacoma Paper and Stationery (TPS) building encompasses the AOC 7 boundary. AOC 7 is bounded by Jefferson Avenue to the west, the Prairie Line Trail to the east, Dougan Building to the north, and the UWT Sciences Building to the south. AOC 7 is shown in relation to the Campus boundary and other AOCs on Figure 2.

The existing TPS Building was constructed between 1904 and 1905 initially as a candy factory for the Tacoma Biscuit and Candy Company. A variety of businesses have operated within the TPS Building. The TPS Company (wholesale paper company) was in operation between 1911 and 1942. The south end of the building was previously used as a sign printing shop. Solvents, including PCE, may be associated with ink printing. The 1806 Jefferson Street Association Parcel is included as an AOC because PCE was detected in soil and groundwater within the TPS building. The source of the PCE appears to have originated from within the building during historic operations. Construction was recently finished to remodel the existing building.

5.3.1. Scope of Remedial Investigation

One shallow well (A7-MW2S) was installed upgradient and two wells (A7-MW1S and A7-MW1D) were installed downgradient of the TPS Building to evaluate the lateral extent of PCE-contaminated groundwater. Soil samples submitted for chemical analysis of HVOCs were collected at every 5- to 10-foot depth interval.

Groundwater monitoring of new and existing wells (JS-MW3, JS-MW3S, USC-MW1S, USC-MW1D, A7-MW1S/A7-MW1D and A7-MW2S) was performed in December 2016. A groundwater sample was not

collected from well A7-MW2S because groundwater was not observed in this well in December 2016. Groundwater samples were submitted for chemical analysis of HVOCs.

5.3.2. Results of Investigation

This section provides an interpretation of the geologic and hydrogeologic conditions and the chemical analytical results for AOC 7 based on the 2016 findings. The groundwater chemical analytical results and well locations are shown on Figure 17, a cross section with geology and general chemical analytical results for PCE and TCE on shown on Figure 6. The chemical analytical data is summarized in Tables 5 and 6.

5.3.2.1. Site Geology and Hydrogeology

The subsurface conditions in wells near the TPS Building vary between the west and east side of the building based on data collected during previous investigations as shown on Figure 6. In general, subsurface conditions observed on the east side of the building consist of fill, ice-contact deposits, silt and advance outwash. Directly west of the building, the ice-contact deposits vary with a water-bearing silty sand underlain by a semi-confining to confining silty gravel. The silt layer is not present on the east side of the building. The ice-contact deposits and silt (where present) are underlain by advance outwash. The shallow aquifer is present above the silty gravel/layer within the silty sand. The deep aquifer is present in the advance outwash.

The 2016 subsurface evaluation confirmed the typical subsurface conditions west of the building in A6-MW2S (fill, ice-contact deposits, silt, advance outwash). However, shallow groundwater was not observed in well A6-MW2S during installation in November 2016 and during groundwater monitoring in December 2016. It is unknown why groundwater was not observed in A7-MW2S, but may be related to a stormwater utility installed directly west of A7-MW2S in 2016.

The thick silty gravel portion of the ice-contact deposits anticipated to be located east of the building was not observed in wells A7-MW1S and A7-MW1D. Fill (ground surface to 6 feet bgs) underlain by silty sand ice-contact deposits (6 to 13/16 feet bgs) was observed in boring A7-MW1S and A7-MW1D. This material was underlain by approximately 4 feet of the semi-confining silty gravel ice-contact deposits (16 to 20 feet bgs) in well A7-MW1D. A sand and gravel layer was observed to the total depth (40 feet bgs) in A7-MW1D. The sand and gravel layer was originally interpreted as advance outwash during drilling, but upon further review the sand and gravel layer may be a former drainage channel within the ice-contact deposits as shown on Figure 6. The well screen interval in well A7-MW1S is located within the silty sand ice-contact deposits. The well screen for well A7-MW1D is located within the sand and gravel layer that may be ice-contact deposits.

Groundwater was observed at an elevation of approximately 55 feet in well A7-MW1S starting in October 2016. The well was observed be dry between August and October 2016 based on data obtained from the transducers. Groundwater was observed at an elevation of approximately 41 feet in well A7-MW1D. Groundwater observed does not appear to be under a subartesian condition in well A7-MW1D based on the elevation of the water observed in the wells versus the elevation of the water observed during drilling. This varies from the groundwater potentiometric surface observed in the deep aquifer well (USC-MW1D) located directly upgradient, where the depth of the saturated soils observed during drilling and the measured depth to groundwater following well installation varied by approximately 29 feet. However, the slope of the measured water levels between the two wells is consistent with other deep aquifer wells in the area. If the thick sand and gravel layer (20 feet bgs to at least 40 feet bgs) is a former drainage channel

within the ice-contact deposits, it may be providing a connection between the shallow and deep aquifers in this area. For purposes of this report, well A7-MW1D is interpreted to be screened within the deep aquifer based on the groundwater levels observed in December 2016.

5.3.2.2. Chemical Analytical Results

The chemical analytical results are described below by well and presented in Tables 5 and 6. The RISSL for PCE is 0.054 mg/kg (vadose zone)/0.0027 mg/kg (saturated zone) and TCE is 0.001 mg/kg (vadose zone)/0.0001 mg/kg (saturated zone). The RIGSL for PCE is 5 µg/L; TCE is 1.6 µg/L; and cis-1,2-DCE is 16 µg/L.

A7-MW1S/A7-MW1D. PCE was not detected in soil samples collected from 6 to 12 feet bgs and 34 to 40 feet bgs in wells A7-MW1S/A7-MW1D. PCE was detected in soil samples collected from 15 to 30 feet bgs within the sand and gravel layer of the ice-contact deposits in well A7-MW1D. However, PCE was not detected in the groundwater samples collected from both wells A7-MW1S and A7-MW1D. TCE and other breakdown products were not detected in soil and groundwater samples collected in these wells.

A7-MW2S. PCE and other breakdown products were not detected in the soil samples collected from 6 to 25 feet bgs in well A7-MW2S. Groundwater was not observed in the well during groundwater monitoring activities performed in December 2016.

USC-MW1S. PCE and TCE were detected at concentrations (250 µg/L and 2.2 µg/L, respectively) greater than the respective RIGSLs in the groundwater sample collected in December 2016. However, the PCE and TCE concentrations detected in December 2016 are less than the detected concentrations in October 2014 (330 µg/L, 3.0 µg/L, respectively). Other breakdown products were not detected in the analyzed soil and groundwater samples in this well.

USC-MW1D, JS-MW3, JS-MW3S. PCE and TCE were not detected in the analyzed groundwater samples in 2016.

5.3.3. Conclusions and Potential Changes to RI Work Plan

It appears that the TPS site is the source of PCE detected in the shallow aquifer directly downgradient of the TPS Building (USC-MW1S). The downgradient extent of the plume is unknown because PCE was not detected in the groundwater samples collected from wells A7-MW1S and A7-MW1D located further downgradient. However, PCE was detected in soil samples collected in well A7-MW1D from 15 to 30 feet bgs. Typically, if PCE is detected in soil samples then PCE is usually detected in groundwater at each location based on our experience on the UWT Campus. PCE-contaminated soil encountered in well A7-MW1D might be located at different depths than the well screen interval in this well possibly indicating that PCE might actually be present in groundwater near well A7-MW1D.

A sand and gravel layer is present from 20 to 40 feet bgs in well A7-MW1D. The sand and gravel layer was originally interpreted as advance outwash during drilling, but upon further review the sand and gravel layer may be the former drainage channel within the ice-contact deposits as shown on Figure 6. If the thick sand and gravel layer is a former drainage channel within the ice-contact deposits, it may be providing a connection between the shallow and deep aquifers in this area.

The RI Work Plan identifies four additional shallow wells to be installed in this area including semi-annual groundwater monitoring. Additional investigation might be necessary to evaluate the following data gaps:

- Groundwater conditions where PCE was detected in the soil samples collected in A7-MW1D (15 to 30 feet bgs).
- An additional well installed to a depth deeper than 40 feet bgs to evaluate the connection between the shallow and deep aquifers in this area.

Per the RI Work Plan, semi-annual groundwater monitoring of the existing wells will continue when UW can secure funding to perform these activities. UW may be considering modifying this schedule based on funding and the anticipated timeline of completion of the RI/Feasibility Study (FS). We recommend at least two years of semi-annual monitoring prior to completion of the RI/FS.

5.4. AOC 8 - Derville

AOC 8 (Derville Parcel) is situated on the west side of the Campus. The Derville Parcel is bounded by Tacoma Avenue to the west, a vacant lot to the north, Court E to the east, South 19th Street to the south. The Derville Parcel is shown in relation to the Campus boundary and other AOCs on Figure 2. The locations of existing subsurface explorations and monitoring wells and planned monitoring wells on the Derville Parcel are shown on Figure 18.

The Derville Parcel and adjoining properties were developed with residences and stables (later garages) in the late 1800s. The southern portion of AOC 8 was used for wood storage and miscellaneous debris dumping between 2001 and 2005. A wood fuel company was present on the adjacent property to the south of the Derville Parcel from as early as 1936 until 1961. A construction laydown yard that encompasses the Derville Parcel and surrounding properties was constructed around 2005. Wood and miscellaneous debris was stored in the construction laydown yard until 2012.

The Derville Parcel is currently used as a storage area by UWT facilities. The Derville Parcel is identified as an AOC due to lube-range petroleum contamination detected in groundwater (0.55 mg/L) in well UG-MW37 (RIGSL is 0.5 mg/L). Well UG-MW37 was inadvertently destroyed in 2015 during operations in the laydown yard. The replacement well (UG-MW37R) was installed approximately 20 feet to the west and upgradient of former well UG-MW37 in a location where it will be protected in the future.

Previous investigations also included several test pits (1B-TP1 through 1B-TP3) and a geophysical survey in 2013. Chemicals of concern were either not detected or were detected at concentrations less than the RISSL levels in the soil samples collected from 0 to 8 feet (fill material). One anomaly was identified in the geophysical survey (1B-A6). Anomalies identified during the M/GPR survey were only investigated further during 2013 Subsurface Investigation if the anomaly was located near former commercial buildings or apartments where USTs are anticipated to be larger and require additional resources to remove if encountered during construction than the standard residential USTs. Magnetic anomaly 1B-A6 was not investigated because it was located near a former residence.

5.4.1. Scope of Remedial Investigation

Groundwater monitoring was performed in one shallow well (UG-MW37R) and one deep well (UG-MW24) within AOC 8 in December 2016. Additional drilling or well installation was not completed in this area in 2016.

The groundwater samples were submitted for chemical analysis of diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx to further evaluate and monitor the contaminant

plume in this area. Additional chemical analysis for TCE, 1,1-DCE, trans-1,2-DCE and cis-1,2-DCE, and vinyl chloride are discussed in Section 5.6 - AOC 11 - Other UWT Locations – Groundwater.

5.4.2. Results of Investigation

Diesel- and lube oil-range petroleum hydrocarbons were not detected in the analyzed groundwater samples.

5.4.3. Conclusions and Potential Changes to RI Work Plan

Lube oil-range petroleum-contaminated groundwater was detected in former well UG-MW37 in 2013. Well UG-MW37 was accidentally destroyed and replaced with well UG-MW37R in 2015. Well UG-MW37R is located approximately 20 feet west and upgradient of former well UG-MW37. Lube oil-range petroleum hydrocarbons were not detected in the groundwater sample collected in the replacement well UG-MW37R in 2016.

Additional data gaps were not identified the 2016 field investigation. Additional remedial investigation planned in this area includes installation of five new monitoring wells including one test pit. Per the RI Work Plan, semi-annual groundwater monitoring of the existing wells will continue when UW can secure funding to perform these activities. UW may consider removing proposed upgradient well A8-MW1S and moving well A8-MW2S and A8-MW2D to the locations as shown on Figure 18 based on the 2016 groundwater monitoring results in well UG-MW37R. UW may also consider modifying this schedule based on funding and the anticipated timeline of completion of the RI/FS. We recommend at least two years of semi-annual monitoring prior to completion of the RI/FS.

5.5. AOC 9 – Kelly

AOC 9 (Kelly Parcel) is situated within the central portion of the Campus. AOC 9 is bounded by Fawcett Avenue to the west, Court D to the east, South 19th Street to the south, and the UW Campus to the north. The Kelly Parcel is shown in relation to the Campus boundary and other AOCs on Figures 2 and 19. The entire Kelly Parcel presently is generally flat with a paved asphalt cover that serves as a parking lot for the Campus. Rock retaining walls are present on the west, south and east portions for AOC 9. Vegetation is limited to the parking islands and along the perimeter of AOC 9 beyond the paved areas.

A large building was present on the southern portion of AOC 9, which a winery, indoor golf and grocery store operated between 1931 and 1936. E I Cleaners (dry cleaner) operated at this site in at least 1931 within the southeast portion of AOC 9. A motorcycle sales and service shop was present in the southern building and a garage by 1942 through at least 1969. The southern building and associated garages were demolished in 1992. City demolition records indicate an underground storage tank (UST) was decommissioned in place. The UST was located approximately 4 feet west of the Court D alley, 4 feet north of the sidewalk and 2 feet deep. This area is currently in a vegetated area near a retaining wall.

The Kelly Parcel is an AOC due to the TCE contamination identified in groundwater and gasoline-range petroleum hydrocarbon contamination identified in soil on this parcel. The former motorcycle shop and dry cleaner are identified as Potential Sources #11 and #12.

5.5.1. Scope of Remedial Investigation

One shallow and one deep well (A9-MW1S and A9-MW1D) were installed in 2016 at AOC 9 to evaluate the depth and presence of a potential silt layer in the area. Groundwater monitoring was performed in existing

wells (UG-MW16, UG-MW17, UG-MW31) and the two new wells (A9-MW1S and A9-MW1D) in December 2016.

Soil samples submitted for chemical analysis of HVOCs were collected at every 5- to 10-foot depth interval in boring A9-MW1D. Soil samples collected from the surface below the asphalt cover to approximately 10 feet bgs were also submitted for petroleum hydrocarbon identification. Groundwater samples were submitted for chemical analysis of HVOCs, and gasoline-range petroleum hydrocarbons. Groundwater samples collected from UG-MW16 and UG-MW17 were submitted for chemical analysis of lead. Select soil samples were submitted for physical analysis of grain-size distribution, pH, bulk density; total organic carbon and porosity as summarized in Table 10.

The aquifer pumping test scheduled to be performed within AOC 9 in 2016 was not completed based on the initial chemical analytical results, the presence of a silt layer observed during drilling and the concern for cross contamination between the shallow and deep aquifers. Additional evaluation is necessary to evaluate the need for a pumping test in this area in the future.

5.5.2. Results of Investigation

This section provides an interpretation of the geologic and hydrogeologic conditions and the chemical analytical results for AOC 9 based on the 2016 findings. The groundwater chemical analytical results are shown on Figure 9. A cross section showing the geology and PCE and TCE results are shown on Figures 11 and 12. The chemical analytical data is summarized in Tables 5 through 8.

5.5.2.1. Site Geology and Hydrogeology

The general Campus geology sequence (fill, ice-contact deposits, silt, and advance outwash) was generally observed in borings A9-MW1S and A9-MW1D with the exceptions described below. The geologic interpretation is shown on Figures 11 and 12 and described in detail below.

Approximately 6 to 9 feet of fill was observed near the ground surface consisting of a mix of sand, silt and gravel with reworked ice-contact deposits near the bottom of the fill in borings A9-MW1S and A9-MW1D. Ice-contact deposits were observed beneath the fill consisting of silty gravel with gravel with silt and sand to a depth of 15 feet bgs. The underlying soil was observed to be a sand and gravel to depths up to 37 feet bgs. The sand and gravel layer is interpreted as a former drainage channel with the ice-contact deposit material. The potential former drainage channel likely extends laterally to wells UG-MW16 and UG-MW17 and further downhill as described in Section 4.0. A semi-confining to confining silt layer was observed between 37 and 48 feet bgs in A9-MW1D and herein referred to as the "silt layer". The silt layer consisted of silty sand and silt. Advance outwash deposits were observed beneath the silt layer consisting gray fine to medium silty sand.

It appears that unconfirmed wells UG-MW16 and UG-MW17 are actually screened within the shallow aquifer based on the depth of the silt layer observed in well A9-MW1D as shown in the updated cross sections provided as Figures 11 and 12.

Groundwater within the shallow aquifer appears continuous across AOC 9 based on the groundwater information observed in wells A9-MW1S, UG-MW16 and UG-MW17. The elevation of the shallow aquifer ranges from approximately 152 feet on the west side to approximately 141 feet on the east side of AOC 9 based on the December 2016 groundwater measurements.

Groundwater was observed within the deep aquifer in well A9-MW1D. The deep aquifer appears to be likely under a confined condition within the advance outwash in this well because the depth of the saturated soils observed during drilling and the measured depth to groundwater following well installation varied by approximately 40 feet. The elevation of the potentiometric surface of the deep aquifer was approximately 148 feet in December 2016.

5.5.2.2. Chemical Analytical Results

The chemical analytical results are described below and presented in Tables 5, 6, 7 and 8. The RISSL for gasoline-range petroleum hydrocarbons in soil is 30 mg/kg (vadose and saturated zones) and TCE is 0.001 mg/kg (vadose zone)/0.0001 mg/kg (saturated zone). The RIGSL for gasoline-range petroleum hydrocarbons in groundwater is 800 µg/L; PCE is 5 µg/L; TCE is 1.6 µg/L; and cis-1,2-DCE is 16 µg/L.

A9-MW1S/A9-MW1D. Petroleum hydrocarbons were either not detected or were detected at concentrations less than the RISSL in the analyzed soil samples. TCE was detected concentrations greater than the RISSL in several soil samples collected from 9 to 36.5 feet bgs primarily within the ice-contact deposits but also a portion of the silt layer. TCE was not detected in the soil samples collected between 38 and 70 feet bgs. Other HVOCs were not detected in the analyzed soil samples.

TCE was detected at a concentration (150 µg/L) greater than the RIGSL in groundwater collected from well A9-MW1S (shallow aquifer). PCE and cis-1,2-DCE were detected at concentrations (1.0 µg/L and 1.1 µg/L, respectively) less than the respective RIGSL in well A9-MW1S (shallow aquifer).

TCE was detected at a concentration (0.33 µg/L) less than the RIGSL in well A9-MW1D (deep aquifer). Other HVOCs and gasoline-range petroleum hydrocarbons were either not detected or were detected at concentrations less than the respective RIGSLs in the groundwater samples collected in 2016.

UG-MW16, UG-MW17, and UG-MW31. TCE was detected at concentrations (140 µg/L, 280 µg/L, 70 µg/L, respectively) greater than the RIGSL in the shallow aquifer wells UG-MW16, UG-MW17 and UG-MW31 in 2016. PCE was detected at concentrations less than the RIGSL in the wells in 2016. Other HVOCs, lead, gasoline-range petroleum hydrocarbons were not detected or detected at concentrations less than the RIGSL in 2016. The 2016 concentrations are similar to the 2013 detected concentrations in these shallow aquifer wells.

5.5.3. Conclusions and Potential Changes to RI Work Plan

The purpose of the new wells A9-MW1D and A9-MW1S was to evaluate for the potential presence of a silt layer within AOC 9. The semi-confining to confining silt layer appears to be present from approximately 36 to 47 feet bgs within AOC 9. It appears that unconfirmed wells UG-MW16 and UG-MW17 are actually screened within the shallow aquifer based on the depth of the silt layer observed in well A9-MW1D, depth of the well screen interval in wells UG-MW16 and UG-MW17 and the TCE concentrations detected in the shallow and deep aquifers. TCE was detected at concentrations greater than the RIGSL within the shallow aquifer in wells UG-MW16, UG-MW17 and A9-MW1S. TCE was detected at concentrations less than the RIGSL within the deep aquifer in well A9-MW1D with these concentrations approximately three orders of magnitude less than the concentrations detected within the shallow aquifer.

Additional data gaps were not identified during the 2016 investigation. The aquifer pumping test scheduled to be performed within AOC 9 in 2016 was not completed based on the initial chemical analytical results, the presence of a silt layer observed during drilling and the concern for cross contamination between the

shallow and deep aquifers. Additional evaluation is necessary to evaluate the need for a pumping test in this area in the future.

Additional remedial investigation activities planned within AOC 9 includes a geophysical survey and advancing direct-push soil borings to evaluate the potential presence of a UST in the southwest corner of AOC 9 and evaluate soil and groundwater conditions related to the potential presence of a UST. Per the RI Work Plan, semi-annual groundwater monitoring of the existing wells will continue when UW can secure funding to perform these activities. UW may be considering modifying this schedule based on funding and the anticipated timeline of completion of the RI/Feasibility Study (FS). We recommend at least two years of semi-annual monitoring prior to completion of the RI/FS.

5.6. AOC 11 – Other UWT Locations – Groundwater

AOC 11 encompasses the five groundwater plumes that are present beneath the Campus. In general, AOC 11 primarily focuses on the Westerly and Easterly Plumes that are related to the area-wide PCE- and TCE- contaminated groundwater. Site-specific petroleum-contaminated groundwater identified within the Easterly Plume is also included in AOC 11. The three other plumes (TPS, Howe and Upton) are discussed through their respective AOC.

The table below describes the five groundwater plumes on Campus in relation to the contaminants of concern and which AOC addresses the contaminant. The following sections describe the scope of the 2016 remedial investigation within AOC 11 and notable findings during the 2016 field investigation.

Plume Identification	General Plume Location	Contaminants of Concern Within Plume	Aquifer	AOC Where Groundwater Plume is Discussed	Section of This Report with 2016 Field Investigation Results
Westerly Plume	The known extent of the Westerly Plume is comprised of small plumes that generally trend from south of South 19 th Street and Tacoma Avenue to north of South 19 th Street and Jefferson Avenue. The westerly plume likely extends west of Tacoma Avenue.	Lube Oil-Range Petroleum Hydrocarbons	Shallow	AOC 8 (Derville Parcel)	Section 5.4
		TCE With Minor PCE	Shallow and Deep	AOC 11 (Other UWT Locations – Groundwater) A portion of the plume is also discussed in AOC 9 (Kelly Parcel)	This Section with Additional Discussion in Section 5.5
		TCE Plume with 1,1,1-TCA and 1,1-DCA Indicators	Shallow and Deep	AOC 11 (Other UWT Locations – Groundwater)	This Section

Plume Identification	General Plume Location	Contaminants of Concern Within Plume	Aquifer	AOC Where Groundwater Plume is Discussed	Section of This Report with 2016 Field Investigation Results
Easterly Plume	The Easterly Plume generally trends from north of South 21 st Street and Market Street to south of South 19 th Street Stairs and Pacific Avenue.	Gasoline-Range Petroleum Hydrocarbons, Benzene, Ethylbenzene, Total Xylene, Naphthalene	Shallow	AOC 1 (Cragle Parcel)	Section 5.1
		Benzene and Chlorobenzene	Shallow and Deep	AOC 10 (Jet Parking Parcel)	Section 5.1
		TCE and Vinyl Chloride	Shallow and Deep	AOC 11 (Other UWT Locations – Groundwater)	This Section
		Diesel-Range Petroleum Hydrocarbons	Shallow	AOC 11 (Other UWT Locations – Groundwater)	This Section
		Gasoline-Range Petroleum Hydrocarbons	Shallow	AOC 11 (Other UWT Locations – Groundwater)	This Section
Tacoma Paper and Stationery Plume	East and adjacent to the UWT TPS Building	PCE	Shallow	AOC 7 (1806 Jefferson Street Association)	Section 5.3
Howe Plume	Between South 17 th and South 19 th Street Stairs and East of Commerce	PCE	Deep	AOC 5 (Howe Parcel)	Not Discussed in this Data Report
Upton Plume	Adjacent to South 17 th Street Between Tacoma Avenue and Market Street	PCE and TCE	Shallow and Deep	AOC 6 (Upton Parcel)	Section 5.2

5.6.1. Westerly Groundwater Plume

The known lateral extent of the Westerly Plume is comprised of small plumes that generally trend from south of South 19th Street and Tacoma Avenue to north of South 19th Street and Jefferson Avenue. The westerly plume likely extends west of Tacoma Avenue. Additional investigation was completed in 2016 to evaluate the western and eastern extent of the Westerly Plume and assess soil and groundwater conditions near two potential contaminate sources (#3 and #7) along Tacoma Avenue. The chemical analytical results and estimated extent of the contaminate groundwater plumes are shown in Figures 20 to 26. The known groundwater plumes on the UWT campus are shown in Figure 27.

5.6.1.1. Westerly Plume - Scope of Remedial Investigation

Eighteen new monitoring wells were installed within the Westerly Plume. The locations of the new wells are shown on Figure 3. A summary of the lithology within the well screen interval and depths are identified in Table 2.

The wells consisted of five new wells pairs (A11-MW1S/A11-MW1D, A11-MW2S/A11-MW2D, A11-MW7S/A11-MW7D, A11-MW10S/A11-MW10D, and A11-MW11S/A11-MW11D), three wells to complete well pairs (UG-MW4S, UG-MW36D, UG-MW27S) from previous investigations, three additional shallow aquifer wells (A11-MW6S, A11-MW8S, A11-MW9S) and two additional deep aquifer wells (A11-MW3D and A11-MW5D). Well A11-MW4S was not installed due to utility and safety constraints.

Soil samples submitted for chemical analysis of HVOCs were collected from every 5- to 10-foot depth interval in the shallow and deep wells located downgradient of potential sources. Select soil samples from UG-MW36D were analyzed for grain-size distribution, pH, bulk density, total organic carbon and porosity. Water level transducers were placed in wells A11-MW3D, A11-MW6S, A11-MW11S and A11-MW11D in October 2016. Groundwater information was downloaded from the transducers in December 2016.

Groundwater monitoring was completed in up to 70 wells in December 2016. Fourteen stormwater manholes located on the Campus and within the vicinity outside of the Campus were surveyed for the presence of water within the stormwater piping. Six water samples were collected within the stormwater piping where water was observed in December 2016. The purpose of sampling the water within the stormwater piping is to evaluate if the stormwater system is potentially providing a preferential pathway for migration of the groundwater. The survey was completed at least 24 hours after a rain event. Groundwater and water samples were submitted for chemical analysis of HVOCs.

5.6.1.2. Westerly Plume - Results of Investigation

This section provides an interpretation of the geologic and hydrogeologic conditions and the chemical analytical results for the Westerly Plume based on the 2016 findings. The groundwater chemical analytical results and well locations are shown on Figure 3, a cross section with geology and general chemical analytical results for PCE and TCE on shown on Figures 7, 10, 11 and 12. The chemical analytical data is summarized in Tables 5 and 6 and shown on Figures 20 through 26. The elevation of the deep and shallow aquifers in AOC 11 is summarized on Figures 13 and 14 based on the December 2016 results.

The RIGSL are summarized in Tables 5 and 7. The RIGSLs for PCE is 5 µg/L, TCE is 1.6 µg/L, vinyl chloride is 0.29 µg/L, 1,1-DCE is 3.2 µg/L, 1,1,1-TCA is 200 µg/L and 1,1-DCA is 7.8 µg/L. The RISSL for TCE is 0.001 mg/kg (vadose zone)/0.0001 mg/kg (saturated zone), for vinyl chloride is 0.0018 mg/kg (vadose zone)/0.001 mg/kg (saturated zone), and 1,1-DCE is 0.023 mg/kg (vadose zone)/0.004 mg/kg (saturated zone), 1,1,1-TCA is 1.6 mg/kg (vadose zone)/0.08 mg/kg (saturated zone), and 1,1-DCA is 0.0042 mg/kg (vadose zone)/0.0021 mg/kg (saturated zone).

5.6.1.3. Westerly Plume Geology and Hydrogeology

Subsurface conditions consist of recent fluvial deposits, fill, recessional outwash, ice-contact deposits, silt layer and advance outwash on the Campus based on previous studies. The notable changes to the geology and hydrogeologic interpretation are included in Section 4.0 based on the 2016 field investigation results. Two particularly notable changes that will directly influence contaminant flow within the Westerly plume are listed below.

- Potential presence of a former drainage channel (gravel layer) in the ice-contact deposits between along South 19th Street between Fawcett Avenue and Jefferson Avenue as shown on Figures 3, 11 and 12. The gravel layer may potentially connect the shallow and deep aquifers in the area of Market Street. Additional investigation not identified in RI Work Plan will be necessary to further evaluate the extent of the large gravel layer and the potential connection between the two aquifers.
- Potential presence of the upper and lower silt layers upgradient and throughout Campus and subsequently the potential presence of perched aquifer in addition to the shallow and deep aquifers. Additional investigation not identified in the RI Work Plan will be necessary to further evaluate the presence of a perched aquifer.

5.6.1.4. Upgradient of Campus Findings and Discussion

A total of eight wells were installed upgradient/west of the UWT Campus between Yakima Avenue and Tacoma Avenue. Two shallow wells (A11-MW2S and A11-MW6S) and three deep wells (A11-MW2D, A11-MW3D, and A11-MW5D) were installed along or near Yakima Avenue. Two shallow (A11-MW1S and A11-MW7S) and two deep wells (A11-MW1D and A11-MW7D) were installed along Tacoma Avenue directly downgradient of Potential Sources #3 and #7. It appears the shallow aquifer is not present near South 21st Street based on the results indicating monitoring wells A11-MW1S and A11-MW2S being dry in December 2016 following well installation.

TCE and PCE were not detected in the soil and groundwater samples collected from wells located along Yakima Avenue (A11-MW2D/A11-MW2S, A11-MW3D, A11-MW5D and A11-MW6S). The soil samples were collected to a depth of 100 feet bgs within the ice-contact deposits, silt(s) layer and advance outwash. This indicates that the groundwater plume is likely not migrating from potential sources upgradient of Yakima Avenue in the area of these monitoring well locations.

Two wells pairs were completed directly downgradient of two potential sources. The potential contaminant sources include the former Delta Camshaft repair facility (Potential Source #3) and a former photo metal engraving facility (Potential Source #7). The result of the field activities downgradient of each source are described below.

Tacoma Avenue – Downgradient of Source #3 - Delta Camshaft (A11-MW1D and A11-MW1S). TCE was not detected in the analyzed soil samples collected from 1 to 20 feet bgs within the ice-contact deposits, silt layer and advance outwash. TCE was detected in the soil samples collected from 29 to 50 feet bgs within the advance outwash greater than the RISSL with one exception. TCE was detected at concentrations less than the RISSL in one sample collected from 38 to 39 feet bgs.

TCE was detected at a concentration (5.4 µg/L) greater than the RIGSL in the groundwater sample collected in A11-MW1D (deep aquifer). A groundwater sample was not collected from well A11-MW1S because groundwater was not observed in the well during the December 2016 monitoring event. Other HVOCs were not detected in the analyzed groundwater samples. These results indicate that Potential Source #3 might be contributing to the TCE groundwater plume based on the soil and groundwater analytical results within the advance outwash but might not be the main source of the large TCE groundwater plume in the deep aquifer for the following reasons:

- The TCE concentration in A11-MW11D is similar to downgradient concentrations within the TCE deep aquifer on Campus (UG-MW21 and UG-MW23). Wells UG-MW21 and UG-MW23 are located on the edge of larger TCE deep aquifer plume.
- The TCE concentrations in these three wells are two orders of magnitude less than the greatest TCE concentration in wells UG-MW18 and UG-MW19 (located approximately 250 feet north).
- TCE was not detected in the surficial soil within A11-MW1S and A11-MW1D.

Tacoma Avenue - Downgradient of Source #7 - Former Photo Metal Engraving Facility (A11-MW7D and A11-MW7S) and Associated Downgradient Plume. TCE was detected at concentrations greater than the RISSL in the soil samples collected from 4 and 18.5 feet bgs within the ice-contact deposits and 42 and 54 feet bgs within the advance outwash. TCE was not detected from 18.5 to 34.5 feet bgs within the ice-contact deposits and silt layer, and from 60 to 67 feet within the advance outwash.

TCE was detected at a concentration (290 µg/L) greater than the RIGSL (1.6 µg/L) in the groundwater sample collected in well A11-MW7S (shallow aquifer). A grab groundwater sample was also collected from an artesian gravel layer from 18.5 to 21 feet bgs near the base of the ice-contact deposits. TCE was detected at a concentration (3.1 µg/L) greater than the RIGSL in the grab groundwater sample. TCE was also detected in the deep aquifer at a concentration (11 µg/L) greater than the RIGSL. Additional discussion of the TCE plume within the deep aquifer is included below.

1,1,1-TCA and 1,1-DCA (daughter products) are indicator solvents within the larger TCE plumes. 1,1,1-TCA was detected at concentrations greater than the RISSL in one soil sample from 5 to 5.5 feet bgs and groundwater at concentrations less than the RIGSL in the sample collected from A11-MW7S within the shallow aquifer. 1,1,1-TCA was not detected in the remainder of the analyzed soil samples or in the groundwater sample (A11-MW7D) collected within the deep aquifer. Other HVOCs were not detected in the analyzed soil and groundwater samples.

These results indicate a small plume of TCE/1,1,1-TCA/1,1-DCA within the shallow aquifer extends to the west side of Tacoma Avenue in the area adjacent to the Potential Source #7. Additional discussion on the TCE/1,1,1-TCA/1,1-DCA is included in below. Additional investigation upgradient of Potential Source #7 will be necessary to further evaluate if Potential Source #7 is a source of the TCE/1,1,1-TCA/1,1-DCA plume within the shallow aquifer.

5.6.1.5. Westerly Plume – Shallow Aquifer PCE/TCE Plume Findings and Discussion

There appears to be two separate TCE plumes within the shallow aquifer at AOC 11 as shown on Figures 20 and 21 and discussed further below. The detected HVOC concentrations in 2016 were generally similar to the 2013 detected concentrations with minor to moderate fluctuations. The following summary includes notable new findings from the 2016 investigation with each of the plumes, additional data gaps, and potential changes to the RI Work Plan.

- One large linear TCE plume with minor amounts of PCE is located within the shallow aquifer in the central portion of the Campus. The approximate plume boundary encompasses the area north and south of South 19th Street from at least Tacoma Avenue on the west to Jefferson Avenue on the east as shown on Figures 20 and 21.
 - PCE was detected at concentrations less than the RIGSL in eight wells (UG-MW13, UG-MW14, UG-MW16, UG-MW17, UG-MW30S, UG-MW31, A9-MW1S, A11-MW8S) located near South

19th Street between Market Street and Fawcett Avenue as shown on Figure 20. PCE was not detected in the remaining groundwater samples analyzed.

- TCE was detected at concentrations greater than the RIGSL in 13 shallow wells (UG-MW4S, UG-MW13, UG-MW14 [unconfirmed aquifer], UG-MW16, UG-MW17, UG-MW27S, UG-MW30S, UG-MW31, UG-MW32, UG-MW38S, A9-MW1S, A11-MW8S, A11-MW9S) located within the main TCE Westerly Plume as shown on Figure 21. Analytical results in this area of the Westerly plume indicate that the highest concentration of TCE was detected at UG-MW17 (280 µg/L) located at South 19th Street and Fawcett Avenue. TCE was either not detected or detected at concentrations less than the RIGSL in the remaining groundwater samples analyzed.
- Vinyl chloride, 1,1-DCE, trans-1,2-DCE and cis-1,2-DCE were either not detected or were detected at concentrations less than the respective RIGSLs within the shallow aquifer in wells located within the Westerly Plume. The chemical analytical results for vinyl chloride are shown Figure 22.
- Water samples were collected within the stormwater utility line at six manhole locations. Three water samples were collected at manhole locations along South 19th Street at the intersections of Tacoma Avenue, Fawcett Avenue and Market Street. The three other manhole locations were situated along South 17th Street at the intersections of South I Street, Tacoma Avenue and Market Street. Water samples were not collected in the remaining manhole locations as shown on Figures 20 and 21 because water was either not observed or sufficient volume of water was not accessible for sample collection.

PCE and TCE were detected in the water samples collected within the stormwater utility line on South 19th Street at the intersections of Tacoma Avenue, Fawcett Avenue and Market Street. The TCE detected in the water sample collected at Market Street is likely contributed by the UWT Y Student Center building drain water. The source of TCE within storm water utility line at Tacoma Avenue and Fawcett Avenue is unknown. Groundwater could be infiltrating into the storm water utility line or buildings could be draining directly to the storm water utility line. PCE and TCE were not detected in the water samples collected along South 17th Street. Additional investigation and mapping of utilities will be necessary to evaluate the connection between utilities and the shallow aquifer as identified in the RI Work Plan.

- Former motorcycle service shop (Potential Source #11) and dry cleaner (Potential Source #12) operations in the area of South 19th Street and Fawcett Avenue are possible sources of PCE and TCE that may be contributing to the groundwater plume as discussed in AOC 9 (Kelly Parcel). However, TCE was detected upgradient of AOC 9 within well UG-MW38S and within the stormwater utility line at South 19th Street and Tacoma Avenue. Additional investigation is necessary to further evaluate the upgradient extent of the TCE plume in the shallow aquifer as described in the RI Work Plan.
- TCE was detected at a concentration (22 µg/L) greater than the RIGSL in groundwater at UG-MW27S located directly upgradient of the UWT Health Services Building. This site is an approximately 20-foot vertical soil wall where water drains out of the soil wall and into the adjacent parking lot. Water sampling performed in 2011 indicated water draining out of the soil wall was not contaminated with TCE (GeoEngineers 2011). However, the shallow TCE groundwater plume appears to extend to this area based on the 2016 groundwater analytical results of well UG-MW27S as shown on Figure 21.
- The southern and western lateral extent of the TCE groundwater plume within the shallow aquifer is not well defined. Additional wells will be necessary to further define the TCE plume within the shallow aquifer as described in the RI Work Plan.
- The eastern and northern lateral extent of TCE within the shallow aquifer are generally well defined. Future wells A11-MW25S and A11-MW29S, UG-MW8S and JS-MW1S will further define the lateral extent of the TCE plume as identified in the RI Work Plan. Well A11-MW16 located upgradient of Potential Source #3 can possibly be removed from the RI Work Plan

because the shallow aquifer was not observed in this area and TCE and PCE were not detected in the soil samples collected within the ice-contact deposits.

- The lateral extent of the TCE groundwater plume at concentrations greater than the RIGSL protective of indoor air within the shallow aquifer is interpreted to extend beneath three UWT-owned buildings (Whitney Building, Health Center, and Swiss Building) and two non UWT-owned buildings (1754 South Fawcett Avenue and 1901 South Fawcett Avenue). Additional evaluation or community outreach to non-UW property owners may be necessary to evaluate the potential for vapor intrusion into these buildings.
- A narrow TCE groundwater plume including 1,1,1-TCA and 1,1-DCA is located within the shallow aquifer of the Westerly Plume near the northwest portion of the Campus from at least Tacoma Avenue to east of Fawcett Avenue as shown on Figure 21. 1,1,1-DCA is a daughter product of 1,1-TCA and an indicator solvent for common sources. This narrow TCE plume appears to extend at least to the west side of Tacoma Avenue based on the additional investigation along Tacoma Avenue and directly downgradient of the Potential Source #7 (former Photo Metal Engraving Facility) as discussed above. Notable findings from the 2016 investigation include:
- Analytical results indicate that the highest concentration of TCE was detected at 1,000 µg/L in well UG-MW25S in December 2016 within the shallow aquifer. The detected TCE concentration in well UG-MW25S is a significant increase from the detected concentration of 290 µg/L in 2013. TCE was also detected within upgradient well A11-MW7S in 2016 at the same TCE concentration detected in 2013 in well UG-MW25S (290 µg/L).
 - 1,1,1 TCA was detected at a concentration (2.6 µg/L) less than the RIGSL in well A11-MW7S. 1,1-DCA was detected at concentrations (15 and 22 µg/L) greater than the RIGSL in well UG-MW25S in both the 2013 and 2016 sampling events. 1,1, DCA was not detected in well UG-MW32 in 2016 but was detected at concentration (0.21 µg/L) less than the RIGSL in 2013. 1,1,1-TCA and 1,1-DCA are chemical indicators suggesting that the source of the TCE/1,1,1-TCA/1,1-DCA-contaminated groundwater identified in monitoring wells A11-MW7S, UG-MW25S, and UG-MW32 are likely a result of the same contaminant source.
 - Potential Source #7 is a former photo engraving/metal arts facility located 1722 Tacoma Avenue South. The former photo engraving/metal arts facility operated between 1956 and 1996 and is located directly upgradient of wells A11-MW7S, UG-MW25S, and UG-MW32. The facility may have used TCE/1,1,1-TCA and 1,1-DCA during its operations. Additional investigation upgradient of the potential source should be implemented to evaluate if TCE/1,1,1-TCA/1,1-DCA-contaminated groundwater is present upgradient of the potential source as identified in the RI Work Plan.
 - The downgradient boundary of the narrow TCE with 1,1,1-TCA and 1,1-DCA groundwater plume is unknown. However, it is interpreted to be connected at Fawcett Avenue with the larger shallow TCE groundwater plume as shown on Figure 21. The influence of utilities as contaminant transport pathways along Tacoma Avenue, Court E and Fawcett Avenue is unknown. Additional subsurface investigation, utility mapping and seasonal groundwater monitoring should be implemented to further evaluate the extent of the groundwater plumes as identified in the RI Work.
 - The lateral extent of the TCE/1,1,1-TCA/1,1-DCA groundwater plume at concentrations greater than the RIGSL protective of indoor air within the shallow aquifer extends beneath one UWT-owned building (Strom Building) and one non UWT-owned buildings (1724 South Fawcett Avenue). Additional evaluation or community outreach to non-UW property owners may be necessary to evaluate the potential for vapor intrusion into these buildings.

5.6.1.6. Westerly Plume – Deep Aquifer TCE Plume Findings and Discussion

The Westerly TCE groundwater plume with minor amounts of PCE in the deep aquifer was interpreted in 2013 as one large plume from Tacoma Avenue to Jefferson Avenue. In general, the detected 2016 concentrations were similar to the detected 2013 TCE concentrations of existing wells. However, it appears the lateral extent of TCE within the deep aquifer may actually be three smaller TCE plumes based on the results of the data collected from the additional wells installed in 2016. The three smaller plumes and findings are discussed below and shown on Figures 23 and 24.

- **Larger TCE with Minor PCE Plume - Tacoma Avenue.** A larger TCE with minor PCE plume located generally along the south side of South 19th Street between Tacoma Avenue and Court D at a minimum. TCE was detected at concentrations greater than the RIGSL in eight deep aquifer wells (A11-MW1D, UG-MW18, UG-MW19, UG-MW20, UG-MW21, UG-MW22, UG-MW23, UG-MW38D) located within the larger TCE Westerly Plume as shown on Figure 24. Analytical results indicate that the highest concentration of TCE in this area of the Westerly Plume was detected at UG-MW18 (700 µg/L) located at South 19th Street and Tacoma Avenue. PCE was also detected at a concentration greater than the RIGSL in well UG-MW18 (14 µg/L) but was either not detected or was detected at concentrations less than the RIGSL in the remaining wells as shown on Figure 23. Vinyl chloride, 1,1-DCE, trans-1,2-DCE and cis-1,2-DCE were either not detected or were detected at concentrations less than the RIGSL.

The larger plume is generally bounded to the south by wells UG-MW23 and A11-MW1D, to the north by wells A9-MW1D and UG-MW24, and to the east by wells UG-MW30D, UG-MW9 and BA-MW1. The extent and the source of this plume is unknown upgradient to the west. The plume does appear to extend west across Tacoma Avenue based on the low level TCE detected in A11-MW1D. Delta Camshaft (identified at Potential Source #3) may be contributing to TCE groundwater plume but does not appear the main source of the TCE based on the low-level concentration of TCE detected in well A11-MW1D (5.4 µg/L) in relation to greater concentrations downgradient on the UWT campus as discussed above.

- **TCE Groundwater Plume – Market Street.** A smaller TCE groundwater plume located generally along the north side of South 19th Street from Market Street to Jefferson Avenue within the deep aquifer. TCE was detected greater than the RIGSL in seven deep wells (A11-MW11D, DD-MW1, UG-MW8, UG-MW3, JS-MW1, JS-MW2, JS-MW4) located within the Market Street Westerly Plume as shown on Figure 23. Analytical results indicate that the highest concentration of TCE in this area of the Westerly plume was detected at DD-MW1 (100 µg/L) located on the east side of Market Street and north of South 19th Street. PCE, vinyl chloride, 1,1-DCE, trans-1,2-DCE and cis-1,2-DCE were either not detected or detected at concentrations less than the RIGSL in wells sampled.

The plume is generally bounded to the north by wells UG-MW7, UG-MW4 and A11-MW10D, to the west by wells UG-MW9 and BA-MW2, and to the east by JS-MW3. The plume boundary to the south is not known and maybe connected to the Easterly plume. The source of the plume is not known but appears to be from a connection to the shallow aquifer via a former fluvial channel in the area. Additional investigation to evaluate the connection of the shallow and deep aquifer in this area is not included in the RI Work Plan and is considered a data gap.

- **TCE Groundwater Plume Downgradient of Potential Source #7 (A11-MW7D, UG-MW25D and UG-MW36D).** A small TCE plume in the deep aquifer appears to be present along Tacoma Avenue near A11-MW7D. TCE was detected at a concentration (11 µg/L) greater than the RIGSL in well A11-MW7D. TCE was detected at concentrations less than the RIGSL in wells UG-MW36D and UG-MW25D. Other HVOCs were not detected in these wells. The source and lateral extent of the smaller plume is not

known. The need for additional investigation should be evaluated following completion of wells UG-MW37RD, A11-MW15D, A11-MW20D and A6-MW3D.

5.6.1.7. Westerly Plume - Conclusions

The results of the 2016 investigation indicate two TCE plumes within the shallow aquifer and three TCE plumes within the deep aquifer are located within the Westerly Plume as shown on Figures 20 through 25. PCE is present within the shallow aquifer in the vicinity of South 19th Street and Fawcett Avenue and the deep aquifer near South 19th Street and Tacoma Avenue South. The RI Work Plan identifies installation of 16 additional wells in areas upgradient and/or downgradient of potential contaminant sources as shown on Figures 21 and 24. Future activities following installation of the 16 wells on the UWT campus includes groundwater modeling, mapping of utilities, performing aquifer pump tests. The additional investigation identified in the 2016 RI Work Plan are generally satisfactory for further evaluation on the UWT Campus. UW may consider the following modifications.

- Additional subsurface investigation at the intersection of South 19th Street and Market Street to further evaluate the geologic and hydrogeologic conditions and the connection between the shallow and deep aquifers.
- Removal of well A11-MW16S located upgradient of Potential Source #3 because the shallow aquifer does not appear to be present in this area and HVOCs were not detected in the downgradient soil samples collected from A11-MW1S.
- Removal or delay of installation of well A11-MW21S and UG-MW21S located east of Tacoma Avenue and north of South 21st Street because the shallow TCE groundwater plume does not appear to extend into this area.
- UW may consider modifying the groundwater monitoring program to an 18-month cycle versus the 6-month cycle outlined in the RI Work Plan based on the anticipated timeline to complete the remedial investigation. We recommend at least two to three rounds of groundwater monitoring in a wet and dry season prior to completion of the RI/FS. The purpose of the seasonal groundwater sampling is to develop a consistent database to evaluate trends between the seasons.
- Suspend groundwater monitoring of the wells located along Yakima Avenue (A11-MW2S/D, A11-MW3D, A11-MW5D, and A11-MW6S) if chemicals of concern are not detected in the next two groundwater sampling events.
- Additional evaluation or community outreach to non-UW property owners may be necessary to evaluate the potential for vapor intrusion into buildings overlying the TCE groundwater plumes within the shallow aquifer.

5.6.2. Easterly Groundwater Plume

The Easterly Plume consists of a TCE/vinyl chloride plume originating near Market Street, diesel-contaminated plume associated with the former Power Station site (current Snoqualmie Library) and gasoline-contaminated plume associated with the former Shaub Ellison Site (current open space). Additional investigation was completed in 2016 to evaluate the easterly extent of the Easterly Plume. This section describes the results notable findings of the 2016 investigation.

5.6.2.1. Easterly Plume - Scope of Remedial Investigation

Two new monitoring wells (A11-MW12S and A11-MW12D) were installed on the downgradient edge of the Easterly Plume. The locations of the new wells are shown on Figure 3. A summary of the lithology within the

well screen interval and depths are identified in Table 2. The wells consisted of one new well pair (A11-MW12S/A11-MW12D) in the shallow and deep aquifers. Soil samples submitted for chemical analysis of HVOCs were collected from every 5- to 10-foot depth interval in well A11-MW12D. Water level transducers were placed in each of these new wells in October 2016. Groundwater level information was downloaded from the transducers in December 2016.

Groundwater monitoring was performed in 39 of the 43 wells located within the southeast portion of AOC 11 in December 2016 as summarized in Table 3. Groundwater samples were submitted for chemical analysis of HVOCs. Groundwater samples were not collected from four wells (UG-MW5, UG-MW10, UG-MW11 and UG-MW15) because the well monuments could not be opened.

Three catch basins situated on the west side of Market Street were evaluated for potential inlet drains and water from the adjacent upgradient buildings to the west as described in Section 5.1. The purpose of evaluation and sampling the water within the catch basin was to evaluate if the building drains on the adjacent properties (Potential Sources #13 and #14) are connected to the storm drain that possibly provides a preferential pathway for migration of contaminants into the groundwater. The survey was completed at least 24 hours following a rain event. One water sample was collected from a catch basin CB6512234 in December 2016 for chemical analysis of VOCs and petroleum hydrocarbons.

5.6.2.2. Easterly Plume – Results of Investigation

This section provides an interpretation of the geologic and hydrogeologic conditions and the chemical analytical results for the Easterly Plume based on the 2016 findings. The groundwater chemical analytical results and well locations are shown on Figures 20 through 26, a cross section with geology and general chemical analytical results for PCE and TCE on shown on Figure 5. The elevation of the deep and shallow aquifers is summarized in Figures 13 and 14 based on information collected in the wells within the Easterly Plume in December 2016. The chemical analytical data is summarized in Tables 5 through 8. The RIGSL for TCE is 1.6 µg/L, vinyl chloride is 0.29 µg/L, 1,1-DCE is 3.2 µg/L, 1,1,1-TCA is 200 µg/L and 1,1-DCA is 7.8 µg/L.

5.6.2.3. Geology and Hydrogeology

The geologic conditions observed in wells A11-MW12S and A11-MW12D were consistent with the previously interpreted geology in the area as described in the RI Work Plan. Notable changes observed during the 2016 investigation includes wells screened within the shallow aquifer appeared to be dry along Pacific Avenue from August to mid-October in 2016 based on groundwater level information obtained from the transducers.

5.6.2.4. Easterly Plume - Main TCE/Vinyl Chloride Plume (Market Street to Pacific Avenue) - Plume Findings and Discussion

In general, the December 2016 groundwater monitoring results were similar to the July 2013 groundwater monitoring results with exceptions described below. The specific chemical analytical results are summarized in Tables 5 and 6 and shown on Figures 20 through 25.

- **Well A11-MW12S/ A11-MW12D.** This well pair was installed in 2016 on the east side of Pacific Avenue. Chemicals of concern were not detected in the shallow well (A11-MW12S). TCE was not detected in the deep aquifer well (A11-MW12D). Vinyl chloride was detected in the deep aquifer well (A11-MW12D) at a concentration (1.5 µg/L) greater than the RIGSL.

- **Well BL-MW5.** Well BL-MW5 is located within the northwest portion of the Cragle Parking Lot. TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,-DCE and vinyl chloride were detected at concentrations greater than the respective RIGSL's in 2016 but showed a significant decrease in concentrations by 2- to 4-fold as compared to the September 2013 results. The well screen interval appears to have been installed within the silt layer in monitoring well BL-MW5. This well was identified as installed within the shallow aquifer in the RI Work Plan but it is possible the screen was installed within the deep aquifer, or possibly screened through both the shallow and deep aquifers.
- **Well BL-MW6.** Well BL-MW6 is located within the northeast portion of the Cragle Parking Lot and directly downgradient of BL-MW5. TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,-DCE and vinyl chloride increased in concentration by a magnitude of two between the September 2013 and December 2016 sampling events.
- **Well CR-MW5.** Well CR-MW5 is located within the Cragle Parking Lot and crossgradient to well BL-MW5 and BL-MW6. TCE, cis-1,2-DCE, and vinyl chloride were not detected in 2016 as compared to the September 2013 results when these COCs were detected at concentrations (2.9 µg/L, 22 µg/L, 1.1 µg/L, respectively) greater than the respective RIGSLs.
- **Well CR-MW12.** Well CR-MW12 is located on the west side of Pacific Avenue. TCE and vinyl chloride were not detected in 2016 as compared to the September 2013 results when these COCs were detected at concentrations (4.7 and 0.64 µg/L, respectively) greater than the respective RIGSLs.
- **PL-MW1.** Well PL-MW1 is located on the eastern side of the Jet Parking Lot. TCE and vinyl chloride were not detected in December 2016 as compared to the April and July 2013 results when these COCs were detected at concentrations greater than the respective RIGSLs (17 and 2.2 µg/L, respectively).

Vapor intrusion occurs when VOCs migrate from contaminated soil or groundwater into overlying buildings through openings in the foundation. The route VOCs take from a subsurface source to the air inside a building is referred to as the vapor intrusion pathway. The shallow aquifer TCE and vinyl chloride plumes extend beneath multiple UWT buildings including Snoqualmie Building, McDonald Smith, Cherry Parks, Philip Hall, and Walsh Gardner and a portion one non-UWT building (Harmon Building). A vapor intrusion analysis was completed in 2014 for the McDonald Smith Building. The results of the vapor intrusion analysis in the McDonald Smith Building indicated vapor intrusion at this location was not a concern. Additional vapor intrusion analyses at other buildings overlying the shallow TCE and vinyl chloride groundwater plumes should be considered.

A vinyl chloride groundwater plume within the deep aquifer extends to the west side of the Washington State History Museum. A shallow aquifer and a silt layer (confining to semi-confining) lie above the deep aquifer and are thought to preclude a vapor contaminant pathway to the surface. Transducer information collected between September and October 2016 indicates that groundwater was not observed in the shallow well (A11-MW12S) on the west side of the History Museum. More evaluation for the presence of a shallow aquifer in this area is necessary.

5.6.2.5. Easterly Plume - Petroleum Hydrocarbons - Plume Findings and Discussion

In general, the December 2016 groundwater monitoring results related to petroleum hydrocarbons in the Easterly Plume were different than the July 2013 groundwater monitoring results as described below. The specific chemical analytical results are summarized in Table 7 and shown on Figure 26. The RIGSL for gasoline-range petroleum hydrocarbons is 800 µg/L and diesel-range petroleum hydrocarbons is 500 µg/L.

- **Diesel-Range Petroleum Hydrocarbons.** Known diesel-contaminated groundwater is present downgradient of the Snoqualmie Library based on previous groundwater monitoring events. Diesel-range petroleum hydrocarbons were detected in groundwater at concentrations greater than the RIGSL in two wells (PS-MW6 and PS-MW7) in 2016. These concentrations increased by 5- to 20-fold between the September 2013 and December 2016 sampling events. The concentration in well PS-MW6 increased from 1,000 µg/L in 2013 to 5,300 µg/L in 2016. The concentration in well PS-MW7 increased from 1,200 µg/L in 2013 to 21,000 µg/L in 2016. Prior to 2013, the most recent sampling event was performed in 1999 (URS 2002). The fluctuation in diesel-range petroleum hydrocarbon concentrations detected in PS-MW7 appears reasonable based on the historical sampling events. The highest concentration of diesel-range petroleum hydrocarbons recorded to date was in well PS-MW6. Additional groundwater sampling is necessary to evaluate the fluctuations in diesel-range petroleum hydrocarbons in groundwater.
- **Gasoline-Range Petroleum Hydrocarbons.** A remedial system was previously installed, operated and decommissioned in the area of the former groundwater plume of gasoline-range petroleum hydrocarbons (Shaub Ellison). Gasoline-range petroleum hydrocarbons were detected at a concentration (1,100 µg/L) greater than the RIGSL in 2013 in the groundwater sample collected from well SH-MW7. The elevated concentration was attributed to a typical increase following removal of the remedial system. Gasoline-range petroleum hydrocarbons were detected at a concentration (340 µg/L) less than the RIGSL in December 2016 indicating the 2013 detected concentration was indeed a result of an increase following removal of the remedial system.

5.6.2.6. Easterly Plume - Conclusions

The results of the 2016 investigation indicate a TCE and vinyl chloride plume are present within the shallow and deep aquifers in the Easterly Plume. Sporadic cis-1,2-DCE, trans-1,2-DCE, 1,1,-DCE is also present but not considered a separate groundwater plume. The groundwater plume of diesel-range petroleum hydrocarbons appears to have increased significantly since 2013 downgradient of the Snoqualmie Library. The increase observed in 2013 within the former groundwater plume of gasoline-range petroleum hydrocarbons appears to have receded near the Shaub-Ellison Building.

The RI Work Plan identifies additional borings and wells will be completed to further evaluate the geologic conditions, extent of the groundwater plumes and the evaluate the potential sources along Market Street. Future activities following installation of the borings wells on the UWT Campus includes groundwater modeling, mapping of utilities, performing aquifer pump tests. It may be warranted to modify the RI Work Plan as follows:

- UW may consider modifying the groundwater monitoring program to an 18-month cycle versus the 6-month cycle outlined in the RI Work Plan based on the anticipated timeline to complete the remedial investigation. We recommend at least two to three rounds of groundwater monitoring during a wet and dry season prior to completion of the RI/FS.
- The downgradient extent of the vinyl chloride plume is unknown. The RI Work Plan does not identify additional monitoring well installations downgradient of the Washington State History Museum to evaluate the extent of the vinyl chloride plume. Additional investigation might be warranted to define the lateral limits of the vinyl chloride plume.
- Additional vapor intrusion analyses at other buildings overlying the shallow TCE and vinyl chloride groundwater plumes should be considered. However, the risk associated with the vinyl chloride plume

within the deep aquifer is less due to the presence of the silt layer and shallow aquifer above the deep aquifer (when present).

- Gasoline-range petroleum hydrocarbons have dramatically decreased at SH-MW7 following remedial activities. This contaminant of concern should be evaluated for an additional three rounds of groundwater monitoring to evaluate if gasoline-range petroleum hydrocarbons remain at concentrations less than the RIGSL.

5.7. AOC 12 – Area-Wide Soil

AOC 12 consists of locations where soil is contaminated with petroleum hydrocarbons, cPAHs and metals or potential USTs that are not already included in the property-specific AOC designations.

Other chemicals of concern that are present in soil and not addressed in AOC 12 section are identified in the table below for reference.

Property/Building Name	Contaminants of Concern in Soil	AOC Where Soil Contamination is Discussed
Cragle Parcel	Petroleum Hydrocarbons and BTEX Compounds	AOC 1 (Cragle Parcel)
Williams Oil Filter	Diesel- and Lube Oil-Range Petroleum Hydrocarbons	AOC 2 (Williams Oil Filter Parcel)
Prairie Line Trail	CPAHs, Lead and Lube Oil-Range Petroleum Hydrocarbons	AOC 3 (Prairie Line Trail)
1706 Jefferson Street Association Parcel	Petroleum Hydrocarbons and BTEX Compounds	AOC 4 (1706 Jefferson Street Association Parcel)
Upton Parcel	PCE, TCE, cis-1,2-DCE and Vinyl Chloride	AOC 6 (Upton Parcel)
Tacoma Paper Stationery Building	PCE	AOC 7 (1806 Jefferson Street Association Parcel)
Kelly Parcel	TCE and Gasoline-Range Petroleum Hydrocarbons	AOC 9 (Kelly Parcel)
Jet Parking Parcel	Petroleum Hydrocarbons and Benzene	AOC 10 (Jet Parking Parcel)

5.7.1. Scope of Remedial Investigation

Soil samples collected of fill material were analyzed for cPAHs and RCRA metals in borings completed on UWT-owned property. The soil samples were collected from borings A6-MW1D, A6-MW1S, A6-MW2D, A9-MW1D, A9-MW1S, A11-MW9S, A11-MW10D, A11-MW11D, UG-MW4S, and UG-MW36D. The soil samples from each boring were generally analyzed from the ground surface to 1 foot bgs and 1 to 2 feet bgs as soil recovery allowed during drilling. Additional soil samples were analyzed to evaluate the vertical extent of contaminated soil or if more than 4 feet of fill was observed. Petroleum hydrocarbon identification analysis and select BTEX analysis was also completed where field screening indicated the potential presence of petroleum contamination.

5.7.2. Chemical Analytical Results

The chemical analytical results for petroleum hydrocarbons and related volatiles and HVOCs is summarized in the sections below and summarized in Tables 8, and 9 and Figure 28

5.7.2.1. Petroleum Hydrocarbons and Related Volatiles

Gasoline-, diesel- and lube oil-range petroleum hydrocarbons were either not detected or were detected at concentrations less than the respective RISSLs in the analyzed soil samples with one exception. Gasoline- and lube oil-range petroleum hydrocarbons were detected at concentrations greater than the respective RISSL (30 mg/kg and 2,000 mg/kg, respectively) in two soil samples collected from 2 to 3 feet bgs (70 mg/kg and 2,300 mg/kg, respectively) and 3 to 4 feet bgs (190 mg/kg and 4,300 mg/kg, respectively) in boring UG-MW36D. O-xylene was also detected at a concentration (8.2 mg/kg) greater than the RISSL (2.7 mg/kg in vadose zone) in the soil sample collected from 3 to 4 feet bgs. Gasoline- and lube oil-range petroleum hydrocarbons were not detected in the soil samples from 0 to 1 feet bgs and 4 to 5 feet bgs. The laboratory report indicated gasoline-range hydrocarbons concentrations were not in the typical gasoline-range and should be qualified as estimated (J) in these samples. The source and lateral extent of the petroleum-contaminated soil is unknown.

5.7.2.2. Metals

Arsenic, barium, cadmium, chromium, mercury, selenium and silver were either not detected or detected at concentrations less than the RISSL in the analyzed soil samples. Lead was detected greater than the RISSL (250 mg/kg) in the following borings and associated sample intervals.

- **A6-MW1D:** Lead was detected at concentrations greater than the RISSL in the soil samples collected from 2 to 4 feet bgs (570 mg/kg, 250 mg/kg, and 460 mg/kg). Lead was detected at a concentration less than the RISSL in the soil samples collected from 0 to 1 feet bgs. An underlying soil sample was not analyzed for lead. Fill was observed to a depth of approximately 10 feet bgs in this area.
- **A6-MW1S:** Lead was detected at concentrations greater than the RISSL in two soil samples collected from 0 to 1 feet bgs and 1 to 2 feet bgs (610 mg/kg and 620 mg/kg). Lead was detected at a concentration less than the RISSL in samples collected from 2 to 3 feet. Fill was observed to a depth of approximately 10 feet bgs in this area.
- **A6-MW2D:** Lead was detected at a concentration greater than the RISSL in the soil sample collected from 0 to 1 feet bgs (320 mg/kg). An underlying sample was not analyzed for lead in this well. However, lead was analyzed in the adjacent boring A6-MW2S with the analytical results indicating lead was not detected or was detected at concentrations less than the RISSL in the soil sample collected from 0 to 7 feet bgs. Fill was observed to approximately 8 feet bgs in this area.
- **UG-MW36D:** Lead was detected at concentrations greater than the RISSL in two soil samples collected from 0 to 1 feet bgs and 1 to 2 feet bgs (420 mg/kg and 370 mg/kg). Lead was detected at a concentration less than the RISSL in the soil sample collected from 2 to 3 feet. Fill was observed to a depth of approximately 4 feet bgs in this area.

Lead was either not detected or was detected at concentrations less than the RISSL in the remaining analyzed soil samples.

5.7.2.3. PAHs

PAHs and cPAHs were either not detected or were detected at concentrations less than the respective RISSL with the following two exceptions:

- **A6-MW1D:** cPAHs were detected at a concentration (TTEC = 0.15 mg/kg) greater than the RISSL (TTEC = 0.14 mg/kg) in one soil sample collected from 2 to 3 feet bgs. cPAHs were detected at a concentration

less than the RISSL in the overlying soil sample analyzed from 0 to 2 feet bgs. An underlying soil sample was not analyzed for cPAHs.

- **A11-MW11D:** cPAHs were detected at a concentration (TTEC = 24 mg/kg) greater than the RISSL in one composite soil sample collected from 0 to 4 feet bgs. cPAHs were not detected in the underlying soil sample from 7 to 8 feet bgs.

5.7.3. Conclusions and Potential Changes to RI Work Plan

The chemical analytical results of the petroleum hydrocarbons, metals and cPAHs are generally consistent with the previous chemical analytical results in the surficial soil as identified on Campus. The sampling protocol identified in the RI Work Plan should continue during future remedial investigation field activities and other investigations implemented by UW on the Campus as applicable.

The source of petroleum-contaminated soil near well UG-MW36D is unknown. Additional investigation may be necessary near UG-MW36D to address this data gap. This additional investigation to further evaluate the source and lateral extent of the petroleum-contaminated soil is currently not identified in the 2016 RI Work Plan.

6.0 LIMITATIONS

We have prepared this report for the exclusive use of the University of Washington for Agreed Order Remedial Investigation 2016 Data Summary Report. University of Washington may distribute copies of this report to owner and owner's authorized agents and regulatory agencies as may be required for the Project.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. The conclusions and opinions presented in this report are based on our professional knowledge, judgment and experience. No warranty, express or implied, applies to this report.

Please refer to Appendix D titled "Report Limitations and Guidelines for Use" for additional information pertaining to use of this report.

Table 1
Summary of Areas of Concern
 Agreed Order Remedial Investigation 2016 Data Summary Report
 University of Washington - Tacoma, Washington

Area of Concern	Name	Chemicals of Concern/Other
AOC 1	Cragle Parcel	Residual Petroleum and Benzene
AOC 2	Williams Oil Filter Parcel	Residual Petroleum
AOC 3	Prairie Line Trail	Residual Petroleum, cPAHs and Lead
AOC 4	1706 Jefferson Street Association Parcel	Residual Petroleum
AOC 5	Howe Parcel	Residual PCE
AOC 6	Upton Parcel	PCE/Dry Cleaner
AOC 7	1806 Jefferson Street Association Parcel	PCE
AOC 8	Derville Parcel	Petroleum Hydrocarbons/Suspected Underground Storage Tank
AOC 9	Kelly Parcel	Suspected Petroleum Hydrocarbons
AOC 10	Jet Parking Parcel	Petroleum and Benzene
AOC 11	Other UWT Locations – Groundwater	PCE, TCE, and Petroleum Hydrocarbons
AOC 12	Other UWT Locations – Soil	Petroleum Hydrocarbons, cPAHs and Metals

Notes:

AOC = Area of Concern

TCE = Trichloroethene

PCE = Tetrachloroethene

cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons

Table 2
New Monitoring Well Information Summary
Agreed Order Remedial Investigation 2016 Data Summary Report
University of Washington - Tacoma, Washington

Monitoring Well Identification	Lithology of Well Screen	Well Screen Aquifer	Ground Surface Elevation (feet, AMSL) ¹	Top of Casing Elevation ¹	X Coordinate (feet) ¹	Y Coordinate (feet) ¹	Well Screen Interval				Total Boring Depth (feet bgs)	Well Diameter (inches)	Date of Installation
							Top of Well Screen Elevation (feet, AMSL) ²	Bottom of Well Screen Elevation (feet, AMSL) ²	Depth of Top of Well Screen (bgs)	Depth of Bottom of Well Screen (bgs)			
New Wells													
UG-MW4S	Qvi	Shallow	105.40	104.96	1158785.31200	703353.573660	100.40	95.40	5	10	10	2	8/25/2016
UG-MW27S	Qvi	Shallow	149.13	148.77	1158497.20782	703200.531473	139.13	122.77	10	26	30	2	8/23/2016
UG-MW36D	Qva	Deep	180.05	179.69	1158176.09396	703304.715646	155.05	140.05	25	40	40	2	8/22/2016
A6-MW1D	Qva	Deep	195.61	195.19	1158086.47581	703617.047099	165.61	150.61	30	45	45	2	8/10/16
A6-MW1S	Qvi	Shallow	195.62	195.28	1158086.35109	703611.983098	185.62	175.62	10	20	20	2	8/10/16
A6-MW2D	Qva	Deep	174.55	174.05	1158204.79112	703629.335936	149.55	134.55	25	40	70	2	8/18/2016
A6-MW2S	Qvi	Shallow	174.80	174.55	1158204.32580	703638.468705	168.80	165.80	6	9	9	2	8/18/2016
A6-MW3S	Qvi	Shallow	221.00	220.66	1157924.67416	703576.439548	206.00	196.00	15	25	30	2	8/1/2016
A7-MW1D	Qva	Deep	64.64	64.24	1159175.74564	703346.003267	34.64	24.64	30	40	40	4	8/31/2016
A7-MW1S	Qvi	Shallow	64.82	64.47	1159176.48520	703348.012212	58.82	52.82	6	12	14	2	9/1/2016
A7-MW2S	Qvi	Shallow	87.04	86.79	1158995.57536	703428.469025	82.04	70.04	5	17	25	2	11/11/2016
A9-MW1D	Qva	Deep	156.48	156.07	1158400.51296	703085.347226	101.48	86.48	55	70	70	4	8/16/2016
A9-MW1S	Qvi	Shallow	156.14	155.82	1158402.38291	703077.193459	136.14	121.14	20	35	35	2	8/17/2016
A11-MW1D	Qva	Deep	215.50	214.96	1157992.90275	702451.824268	180.50	165.50	35	50	50	2	8/10/2016
A11-MW1S	Qvi	Shallow	215.44	215.01	1157992.33768	702456.905617	208.44	198.44	7	17	20	2	8/11/2016
A11-MW2D	Qva	Deep	301.56	301.22	1157341.32649	702169.921541	221.56	206.56	80	95	100	2	7/28/2016
A11-MW2S	Qvi	Shallow	301.65	301.20	1157339.53207	702181.113861	286.65	276.65	15	25	25	2	7/29/2016
A11-MW3D	Qva	Deep	302.11	301.66	1157269.04779	702737.225655	222.11	207.11	80	95	100	2	8/2/2016
A11-MW5D	Qva	Deep	301.65	301.08	1157222.09927	703100.195826	221.65	206.65	80	95	95	2	8/4/2016
A11-MW6S	Qvi	Shallow	288.91	288.57	1157340.09249	703239.172356	278.91	271.91	10	17	20	2	8/8/2016
A11-MW7D	Qva	Deep	219.54	219.19	1157878.80626	703339.401865	164.54	149.54	55	70	70	2	8/11/2016
A11-MW7S	Qvi	Shallow	219.51	219.13	1157879.37127	703334.320872	212.51	203.51	7	16	16	2	8/15/2016
A11-MW8S	Qvi	Shallow	142.48	142.22	1158534.44759	702918.881539	136.48	126.48	6	16	20	2	8/23/2016
A11-MW9S	Qvi	Shallow	159.18	158.89	1158400.36317	703247.507659	150.18	134.18	9	25	30	2	8/15/2016
A11-MW10D	Qva	Deep	87.37	86.97	1158886.12947	703608.518260	62.37	47.37	25	40	40	2	8/26/2016
A11-MW10S	Qvi	Shallow	87.64	87.37	1158892.36181	703609.378587	84.64	81.64	3	6	6	2	8/26/2016
A11-MW11D	Qva	Deep	101.12	100.92	1158828.91230	703077.849274	51.12	41.12	50	60	60	2	8/24/2016
A11-MW11S	Qvi	Shallow	101.29	100.85	1158827.73222	703085.986032	96.29	93.29	5	8	8	2	8/25/2016
A11-MW12D	Qva	Deep	47.21	46.93	1159518.94165	702848.063889	12.21	-2.79	35	50	50	2	8/30/2016
A11-MW12S	Qvi	Shallow	47.21	46.94	1159519.04113	702852.115313	41.21	32.21	6	15	15	2	8/29/2016

Monitoring Well Identification	Lithology of Well Screen	Well Screen Aquifer	Ground Surface Elevation (feet, AMSL ¹)	Top of Casing Elevation ¹	X Coordinate (feet) ¹	Y Coordinate (feet) ¹	Well Screen Interval				Total Boring Depth (feet bgs)	Well Diameter (inches)	Date of Installation
							Top of Well Screen Elevation (feet, AMSL) ²	Bottom of Well Screen Elevation (feet, AMSL) ²	Depth of Top of Well Screen (bgs)	Depth of Bottom of Well Screen (bgs)			
Existing Wells That Were Resurveyed													
UG-MW37R	Qvi	Shallow	206.00	205.69	1158039.94964	703157.060339	N/A	N/A	N/A	N/A	N/A	N/A	4/30/2015
JS-MW3S	Qvi	Shallow	89.35	88.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Moved August to November 2016
JS-MW3	Qva	Deep	89.12	88.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Notes:

¹1. Survey completed by AHBL in December 2016. Vertical datum is NGVD 29 (brass monument at South 19th Street and Fawcett Avenue). Horizontal datum is NAD83/91 Washington State Plane Coordinate System, South Zone, City of Tacoma Horizontal Control.

AMSL = Above mean sea level

-- = Elevation data not available for well

NGVD = National Geodetic Vertical Datum

bgs = Below ground surface

NM = Not measured

TCE = Trichloroethene

Qvi = Ice-contact deposits

N/A = Not applicable

Table 3
Summary of Chemical Analysis Performed on Soil, Groundwater and Water Samples
 Agreed Order Remedial Investigation 2016 Data Summary Report
 University of Washington - Tacoma, Washington

Location Identification	Lithology of Aquifer	Groundwater Chemical Analysis								Soil Chemical Analysis						Area of Concern (AOC)											
		VOCs			Petroleum Hydrocarbons					Lead ⁶	PAHs ⁷	VOCs		Petroleum Hydrocarbons				RCRA Metals ^{6 and 8}	PAHs ^{7 and 8}	AOC 1 (Cragle Parcel)	AOC 6 (Upton Parcel)	AOC 7 (1806 Jefferson Street Association)	AOC 8 (Derville Parcel)	AOC 9 (Kelly Parcel)	AOC 10 (Jet Parking Parcel)	AOC 11 (UWT Other Locations - Groundwater)	AOC 12 (UWT Other Locations - Soil)
		HVOCs ¹	BTEX ²	Chlorobenzene ³	Gasoline-Range ⁴	Diesel-Range ⁵	Lube Oil-Range ⁵	HVOCs ¹	Gasoline-Range ⁴			Diesel-Range ⁵	Lube Oil-Range ⁵														
New 2016 Wells																											
A6-MW1D	Advance Outwash	X									X				X	X		X								X	X
A6-MW1S	Qvi	X									X				X	X		X								X	X
A6-MW2D	Advance Outwash	X									X				X	X		X								X	X
A6-MW2S	Qvi	X									X				X	X		X								X	X
A6-MW3S	Qvi	X									X				X	X		X								X	X
A7-MW1S	Qvi	X									X									X							
A7-MW1D	Advance Outwash	X									X									X							
A7-MW2S	Qvi	Dry	Dry								X									X							
A9-MW1D	Advance Outwash	X			X						X	X	X	X	X	X					X					X	X
A9-MW1S	Qvi	X			X						X	X	X	X	X	X					X					X	X
A11-MW1D	Advance Outwash	X									X															X	
A11-MW1S	Qvi	Dry									X															X	
A11-MW2D	Advance Outwash	X									X															X	
A11-MW2S	Qvi	Dry									X															X	
A11-MW3D	Advance Outwash	X									X															X	
A11-MW4S	Qvi	X									X															X	
A11-MW5D	Advance Outwash	X									X															X	
A11-MW6S	Qvi	X									X															X	
A11-MW7D	Advance Outwash	X									X															X	
A11-MW7S	Qvi	X									X															X	
A11-MW8S	Qvi	X									X				X	X										X	X
A11-MW9S	Qvi	X									X				X	X										X	X
A11-MW10D	Advance Outwash	X									X				X	X										X	X
A11-MW10S	Qvi	X									X				X	X										X	X
A11-MW11D	Advance Outwash	X									X				X	X										X	X
A11-MW11S	Qvi	X									X				X	X										X	X
A11-MW12D	Advance Outwash	X									X				X	X										X	X
A11-MW12S	Qvi	X									X				X	X										X	X
UG-MW4S	Qvi	X									X				X	X										X	X
UG-MW27S	Qvi	X									X															X	X
UG-MW36D	Advance Outwash	X									X				X	X										X	X
Existing Wells																											
BA-MW1	Unconfirmed	X	X	X	X																					X	X
BA-MW2	Advance Outwash	X																									X
BL-MW1	Fill/Recessional Outwash	X	X	X	X													X								X	X
BL-MW3	Fill/Recessional Outwash	X																									X
BL-MW4	Qvi/Silt/Advance Outwash	X			X																						X
BL-MW5	Recessional Outwash/Qvi/Silt	X	X	X	X													X								X	X
BL-MW6	Qvi	X																									X
CR-MW3	Qvi	X	X	X	X													X								X	X
CR-MW5	Fill/Qvi	X	X		X													X									X
CR-MW6	Fill/Recessional Outwash	X	X		X													X									X
CR-MW8	Fill/Recessional Outwash	X	X		X													X									X
CR-MW9	Fill/Recessional Outwash	X	X		X													X									X
CR-MW12	Qvi/Silt/Advance Outwash	X																									
CR-MW15	Advance Outwash	X	X		X													X									X
CR-MW16	Qvi	X																									X
CR-MW17	Qvi	X																									X
DD-MW1	Advance Outwash	X																									X
DD-MW2	Advance Outwash	X	X	X	X																					X	X
JP-MW1R	Qvi	X	X	X	X																					X	X
JP-MW2	Unconfirmed	X	X	X	X																					X	X
JS-MW1	Advance Outwash	X	X																								X
JS-MW2	Advance Outwash	X	X																								X
JS-MW3	Advance Outwash	X	X																		X						X
JS-MW3S	Qvi	X	X																		X						X
JS-MW4	Advance Outwash	X																									X

Location Identification	Lithology of Aquifer	Groundwater Chemical Analysis								Soil Chemical Analysis						Area of Concern (AOC)								
		VOCs			Petroleum Hydrocarbons			Lead ⁶	PAHs ⁷	VOCs		Petroleum Hydrocarbons			RCRA Metals ^{6 and 8}	PAHs ^{7 and 8}	AOC 1 (Cragle Parcel)	AOC 6 (Upton Parcel)	AOC 7 (1806 Jefferson Street Association)	AOC 8 (Denville Parcel)	AOC 9 (Kelly Parcel)	AOC 10 (Jet Parking Parcel)	AOC 11 (UWT Other Locations - Groundwater)	AOC 12 (UWT Other Locations - Soil)
		HVOCs ¹	BTEX ²	Chlorobenzene ³	Gasoline-Range ⁴	Diesel-Range ⁵	Lube Oil-Range ⁵			HVOCs ¹	Gasoline-Range ⁴	Diesel-Range ⁵	Lube Oil-Range ⁵											
JS-MW5	Advance Outwash	X	X	X	X																	X	X	
JS-MW6D	Advance Outwash	X	X	X	X																	X	X	
JS-MW6S	Qvi	X	X	X	X																	X	X	
JS-MW7A	Qvi	X																					X	
MDS-MW1D	Advance Outwash	X																					X	
PL-MW1	Qvi	X	X	X	INA																	X	X	
PL-MW2	Qvi	X	X	X	X			X								X						X	X	
PS-MW6	Recessional Outwash/Qvi	X				X	X									X							X	
PS-MW7	Recessional Outwash/Qvi	X				X	X									X							X	
PS-MW8	Recessional Outwash/Qvi	X				X	X									X							X	
PS-MW9	Recessional Outwash/Qvi	X				X	X									X							X	
SH-MW6	Silt/Advance Outwash	X			X											X							X	
SH-MW7	Silt/Advance Outwash	X			X											X							X	
SH-MW8	Qvi	X			X											X							X	
UG-MW1	Advance Outwash	X	X	X	X																	X	X	
UG-MW2R	Qvi	X	X	X	X																	X	X	
UG-MW3	Advance Outwash	X																					X	
UG-MW4	Advance Outwash	X																					X	
UG-MW5	Advance Outwash/Transition Zone	NA	NA	NA	NA																	X	X	
UG-MW6	Unconfirmed	X	X	X	X																	X	X	
UG-MW7	Advance Outwash	X																					X	
UG-MW8	Advance Outwash	X																					X	
UG-MW9	Advance Outwash	X																					X	
UG-MW10	Advance Outwash/Silt	NA	NA	NA	NA																	X	X	
UG-MW11	Advance Outwash	NA	NA	NA	NA																	X	X	
UG-MW12	Advance Outwash/Silt	X	X	X	X																	X	X	
UG-MW13	Qvi	X																					X	
UG-MW14	Advance Outwash	X																					X	
UG-MW15	Advance Outwash/Silt	NA	NA	NA	NA																	X	X	
UG-MW16	Unconfirmed	X			X			X											X				X	
UG-MW17	Unconfirmed	X			X			X											X				X	
UG-MW18	Advance Outwash	X																					X	
UG-MW19	Advance Outwash	X																					X	
UG-MW20	Advance Outwash	X																					X	
UG-MW21	Advance Outwash	X																					X	
UG-MW22	Advance Outwash	X																					X	
UG-MW23	Advance Outwash	X																					X	
UG-MW24	Advance Outwash	X				X	X												X				X	
UG-MW25D	Advance Outwash	X																					X	
UG-MW25S	Qvi	X																					X	
UG-MW26	Qvi	X																X					X	
UG-MW27	Advance Outwash	X																					X	
UG-MW28	Qvi	X																					X	
UG-MW29S	Qvi	X																X					X	
UG-MW30D	Advance Outwash	X																					X	
UG-MW30S	Qvi	X																					X	
UG-MW31	Qvi	X			X														X				X	
UG-MW32	Qvi	X																					X	
UG-MW33	Qvi	X																X					X	
UG-MW34	Qvi	NA																					X	
UG-MW35	Qvi	X																					X	
UG-MW36	Qvi	X																					X	
UG-MW37R	Qvi	X				X	X												X				X	
UG-MW38D	Advance Outwash	X																					X	
UG-MW38S	Qvi	X																					X	
USC-MW1D	Advance Outwash	X																	X				X	
USC-MW1S	Qvi	X																	X				X	
Y-MW1D	Advance Outwash	X																	X				X	
Y-MW1S	Qvi	X																	X				X	
Y-MW2S	Qvi	X																	X				X	
Y-MW3D	Advance Outwash	X																	X				X	
Y-MW3S	Qvi	X																	X				X	
Y-MW4S	Qvi	Dry																	X				X	
Y-MW6S	Qvi	NA																	X				X	
Y-MW7S	Qvi	X																	X				X	

Location Identification	Lithology of Aquifer	Groundwater Chemical Analysis							Soil Chemical Analysis					Area of Concern (AOC)											
		VOCs			Petroleum Hydrocarbons				Lead ⁶	PAHs ⁷	VOCs			Petroleum Hydrocarbons		RCRA Metals ^{6 and 8}	PAHs ^{7 and 8}	AOC 1 (Cragle Parcel)	AOC 6 (Upton Parcel)	AOC 7 (1806 Jefferson Street Association)	AOC 8 (Denville Parcel)	AOC 9 (Kelly Parcel)	AOC 10 (Jet Parking Parcel)	AOC 11 (UWT Other Locations - Groundwater)	AOC 12 (UWT Other Locations - Soil)
		HVOCs ¹	BTEX ²	Chlorobenzene ³	Gasoline-Range ⁴	Diesel-Range ⁵	Lube Oil-Range ⁵	HVOCs ¹			Gasoline-Range ⁴	Diesel-Range ⁵	Lube Oil-Range ⁵												
Catchbasin Sampling																									
CB: 6522217		X	X	X	X	X	X															X	X		
CB: 6512234		Dry	Dry	Dry	Dry	Dry	Dry															X	X		
Stormwater System Sampling																									
Manholes																									
MH6751924		NS																					X		
MH6751930		NS																					X		
MH6751942		X																					X		
MH6767230		X																					X		
MH6767239		X																					X		
MH6767257		NS																					X		
MH6752077		NS																					X		
MH6751870		NS																					X		
MH6751795		X																					X		
MH6751818		X																					X		
MH6767107		X																					X		
MH6752124		NA																					X		
MH6774945		NS																					X		
MH6767350		NS																					X		
Catch Basins																									
CB6512234		X																					X		
No Number (Between CB6512234 and CD6522217)		NS																					X		
CD6522217		NS																					X		

Notes:

- ¹ Halogenated volatile organic compounds (HVOCs) by United States Environmental Protection Agency (EPA) method 8260C.
 - ² Benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA method 8260B.
 - ³ Chlorobenzene by EPA method 8260B.
 - ⁴ Gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx.
 - ⁵ Diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx.
 - ⁶ Lead by EPA method 200 series.
 - ⁷ PAHs by EPA method 8270D SIM.
 - ⁸ Years 2017-2019 well installations and sampling regime will be reevaluated in the spring of 2017 based on the results of the 2016-2017 investigation findings.
- bgs = Below ground surface
Qvi = Ice-contact deposits
N/A = No access
Dry = No water was present - sample was not collected
INA = inadvertently not analyzed for chemicals shown
PAHs = Polycyclic aromatic hydrocarbons
- BTEX = Benzene, toluene, ethylbenzene and xylenes
EPA = United States Environmental Protection Agency
Ecology = Washington State Department of Ecology
NS = not stamped
HVOCs = Halogenated volatile organic compounds

Table 4
Summary of Survey and Analysis of Stormwater System Catch Basins and Manholes¹
 Agreed Order Remedial Investigation 2016 Data Summary Report
 University of Washington - Tacoma, Washington

Identification Number	Sample Identification ²	North/South Oriented Street	East/West Oriented Street	Flow Into Manhole/ Catch Basin (cu. Ft./sec)	Pipe Diameter (in)	Sampled	Sample Date	Petroleum Hydrocarbons ³			VOCs (µg/L) ⁴											
								Gasoline-Range (µg/L)	Diesel-Range (mg/L)	Lube Oil-Range (mg/L)	PCE, TCE and Associated Breakdown Products					BTEX				Chlorobenzene		
											PCE	TCE	cis-1,2-DCE	Trans-1,2-DCE	1,1-DCE	Vinyl Chloride	Benzene	Ethylbenzene	Toluene		Total Xylene ⁵	
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								800	500	500	0	1.6	16	100	3.2	0.29	2.00	130	520	31-	100	
Manholes																						
MH6751924	N/A	Yakima Ave	South 19 th Street	Low Volume	NM	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MH6751930	N/A	South G St		Low Volume	16-18	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH6751942	MH:6751942-161218	Tacoma Ave		Low Volume	24and 16	Yes	12/18/16	-	-	-	0.20 U	1.1	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	
MH6767230	MH:6767230-161218	Fawcett Ave		0.2	24	Yes	12/18/16	-	-	-	0.50	7.2	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	
MH6767239	MH:6767239-161218	Market Street		1	24	Yes	12/18/16	-	-	-	0.30	4.5	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	
MH6767257	NS	Hood Corridor/Prairie Line Trail		Dry	NM	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH6752077	NS	Yakima Ave	South 18 th Street	Low Volume	NM	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MH6751870	NS	Tacoma Ave		Low Volume	16	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MH6751795	MH:6751795-161218	South I St	South 17 th Street	0.2	16	Yes	12/18/16	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	
MH6751818	MH:6751818-161218	Tacoma Ave		Low Volume	24	Yes	12/18/16	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	
MH6767107	MH:6767107-161218	Market St		0.2	16	Yes	12/18/16	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	
MH6752124	NS	Yakima Ave	South 21 st Street	Could Not Open		No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MH6774945	NS	Court F		Dry	16-18	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MH6767350	NS	Fawcett Ave		Low Volume	-	No	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Catch Basins																						
CB6512234	CB6512234	West Side of Market Street and East of Potential Source #13	South 21st Street	Not Measured	Not Measured	Yes	12/16/16	100 U	0.26 U	0.41 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	
No Number	NS	West Side of Market Street and East of Potential Source #14		Catch basin filled with soil			NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CD6522217	NS			Dry	Dry	No	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

¹ Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.
² Sample ID = Manhole identification number - date sampled (year, month, day) (i.e., MH:6751942-161218).
³ Gasoline-range petroleum hydrocarbons by Washington State Department of Ecology (Ecology)-approved method NWTPH-Gx, Diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx.
⁴ Volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) method 8260B.
⁵ Total xylenes consists of m,p- and o- xylenes. The higher detection limit is shown.

TCE = Trichloroethene
 PCE = Tetrachloroethene
 cis-1,2-DCE = cis-1,2-Dichloroethene
 trans-1,2-DCE = Trans-1,2-Dichloroethene

BTEX = Benzene, toluene, ethylbenzene and xylenes
 1,1-DCE = 1,1-dichloroethylene
 µg/L = Microgram per liter
 mg/L = Milligram per liter

EPA = United States Environmental Protection Agency
 Ecology = Washington State Department of Ecology
 Water flow was measured with a Greyline Stingray Level Velocity Logger attached to a pole and placed on the bottom of the pipe.

Table 5

Summary of Relevant Volatile Organic Compounds - Groundwater¹

Agreed Order Remedial Investigation 2016 Data Summary Report

University of Washington - Tacoma, Washington

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵															
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs					
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7
AOC 1 and 10 - Cragle and Jet Parking and Southern Portion of AOC 11 - Areawide																							
A11-MW12D	Qva	Deep	A11-MW12D-161220	12/20/2016	22.95	23.98	12/27/2016	0.20 U	0.20 U	2.6	0.20 U	0.20 U	1.5	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			DUP-161220	12/20/2016	22.95	23.98	12/27/2016	0.20 U	0.20 U	2.5	0.20 U	0.20 U	1.6	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A11-MW12S	Qvi	Shallow	A11-MW12S-161220	12/20/2016	12.15	34.79	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BA-MW1	Unconfirmed	Unconfirmed	BA-MW1-130711	07/11/2013	7.46	109.01	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U
			BA-MW1-161216	12/16/2016	6.57	107.87	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BL-MW1	Fill/Recessional Outwash	Shallow	BL-MW1-130709	07/09/2013	8.53	57.03	11/8/2013	1.0 U	89	86	9.5	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
			BL-MW1-161221	12/21/2016	7.08	67.61	12/27/2016	0.40 U	88	93	11	0.76	0.40 U	0.40 U	0.40 U	2.0 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
BL-MW3	Fill/Recessional Outwash	Shallow	BL-MW3-130911	09/11/2013	12.55	54.21	11/8/2013	0.20 U	40	22	2.1	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			BL-MW3-161222	12/22/2016	12.23	54.53	12/27/2016	0.20 U	24	17	1.4	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			DUP-161222	12/22/2016	12.23	54.53	12/27/2016	0.20 U	23	16	1.3	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BL-MW4	Qvi/Silt/Advance Outwash	Shallow and Deep	BL-MW4-130708	07/08/2013	13.32	34.92	11/8/2013	0.20 U	0.30	0.79	0.20 U	0.20 U	0.75	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			BL-MW4-161215	12/15/2016	10.36	37.44	12/27/2016	0.20 U	0.9	9.2	0.20 U	0.20 U	1.7	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BL-MW5	Recessional Outwash/Qvi/Silt	Shallow	BL-MW5-130709	07/09/2013	12.42	62.59	11/8/2013	4.0 U	910	220	8.8	7.5	24	4.0 U	4.0 U	20 U	8.0 U	9.6	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
			BL-MW5-161221	12/21/2016	11.67	63.04	12/27/2016	2.0 U	240	61	3.3	2.1	6.0	2.0 U	2.0 U	10 U	4.0 U	4.5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
BL-MW6	Qvi	Shallow	BL-MW6-130711	07/11/2013	20.26	46.96	11/8/2013	2.0 U	120	240	4.5	4.5	61	2.0 U	2.0 U	10 U	4.0 U	2.0 U	2.0 U	2.8 U	2.0 U	2.0 U	
			BL-MW6-161222	12/22/2016	19.85	47.26	12/27/2016	4.0 U	390	550	15	9.3	91	-	-	-	-	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	
CR-MW3	Qvi	Shallow	CR-MW3-130709	07/09/2013	9.10	69.64	11/8/2013	0.20 U	0.20 U	1.4	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			CR-MW3-161220	12/20/2016	7.89	70.67	12/27/2016	0.20 U	0.20 U	2.3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
CR-MW5	Fill/Qvi	Shallow	CR-MW5-130709	07/09/2013	10.05	64.15	11/8/2013	0.20 U	2.9	22	1.2	0.24	1.1	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			CR-MW5-161222	12/22/2016	8.95	65.18	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U		
CR-MW6	Fill/Recessional Outwash	Shallow	CR-MW6-130709	07/09/2013	12.31	60.73	11/8/2013	0.20 U	5.5	15	0.94	0.20 U	0.52	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			CR-MW6-161222	12/22/2016	11.69	61.14	12/27/2016	0.20 U	1.2	4.8	0.32	0.20 U	0.37	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U		
CR-MW8	Fill/Recessional Outwash	Shallow	CR-MW8-130702	07/02/2013	10.32	67.86	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	1.9	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			CR-MW8-161221	12/21/2016	7.72	68.56	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U		
CR-MW9	Fill/Recessional Outwash	Shallow	CR-MW9-130708	07/08/2013	8.52	66.60	11/8/2013	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	130	96	77	340	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
			CR-MW9-161221	12/21/2016	11.22	67.03	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	11	9.0	7.7	16.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
CR-MW12	Qvi/Silt/Qva	Shallow and Deep	CR-MW12-130708	07/08/2013	11.69	37.23	11/8/2013	0.20 U	4.7	3.8	0.20 U	0.20 U	0.64	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U		
			CR-MW12-161215	12/15/2016	10.97	36.57	12/27/2016	0.20 U	0.20 U	0.29	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U		

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵																
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs						
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)	
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7	
AOC 1 and 10 - Cragle and Jet Parking and Southern Portion of AOC 11 - Area Wide (Easterly Plume)																								
CR-MW15	Qva	Deep	CR-MW15S-130905	09/05/2013	17.13	62.32	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.3	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			CR-MW15-161228	12/28/2016	16.63	62.82	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.4	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
CR-MW16	Qvi	Shallow	CR-MW16S-130905	09/05/2013	16.45	48.26	11/8/2013	2.0 U	300	240	15	3.9	17	2.0 U	2.0 U	10 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
			CR-MW16-141030	10/30/2014	16.45	48.26	10/30/2014	2.0 U	340	270	15	3.0	19	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
			CR-MW16-161220	12/20/2016	16.16	48.55	12/27/2016	2.0 U	310	300	19	3.8	23	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
CR-MW17	Qvi	Shallow	CR-MW17S-130905	09/05/2013	18.57	45.54	11/8/2013	1.0 U	93	120	6.5	1.7	12	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
			CR-MW17-141030	10/30/2014	18.57	45.54	10/30/2014	1.0 U	65	86	4.9	1.0 U	8.7	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
			CR-MW17-161220	12/20/2016	18.35	45.76	12/27/2016	1.0 U	62	110	7.7	1.1	13	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DD-MW2	Qva	Deep	DD-MW2-130709	07/09/2013	1.92	138.57	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			DD-MW2-161207	12/07/2016	0.93	139.37	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			DUP-161207	12/07/2016	0.93	139.37	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
JP-MW1	Qvi//Silt/Qva	Shallow and Deep	JP-MW1	04/02/2013	11.67	84.10	04/02/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1 U	0.40 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			JP-MW1-130712	07/12/2013	12.20	83.75	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U	
JP-MW1R	Qvi	Shallow	JP-MW1R	04/03/2013	17.60	84.04	04/03/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.20 U	1 U	0.40 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
			JP-MW1R-130712	07/12/2013	18.09	84.39	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U	
			JP-MW1R-161214	12/14/2016	16.94	84.70	12/27/2016	0.20 U	1.5	0.3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
JP-MW2	Unconfirmed	Unconfirmed	JP-MW2-130702	07/02/2013	17.70	84.09	11/8/2013	4.0 U	500	600	38	10	120	57	4.0 U	20 U	8.0 U	170	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
			JP-MW2-161214	12/14/2016	16.68	84.77	12/27/2016	4.0 U	400	580	39	8.4	110	41	4.0 U	20 U	8.0 U	150	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	
			DUP-161214	12/14/2016	16.68	84.77	12/27/2016	4.0 U	400	630	43	8.9	120	-	-	-	-	150	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	
JS-MW5	Qva	Deep	JS-MW5S-130912	09/12/2013	21.87	82.80	11/8/2013	0.20 U	3.8	0.69	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.55	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			JS-MW5-161214	12/14/2016	20.78	83.89	12/27/2016	0.20 U	3.1	0.64	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.46	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
JS-MW6D	Qva	Deep	JS-MW6D-130913	09/13/2013	19.22	82.77	11/8/2013	0.20 U	2.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			JS-MW6D-161214	12/14/2016	18.15	83.84	12/27/2016	0.20 U	1.7	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
JS-MW6S	Qvi	Shallow	JS-MW6S-130912	09/12/2013	5.56	96.29	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.29	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			JS-MW6S-161212	12/12/2016	4.67	97.18	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
MDS-MW1D	Qva	Deep	MDS-MW1D-141030	10/30/2014	13.50	50.79	10/30/2014	0.20 U	2.3	4.4	0.20 U	0.20 U	1.2	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			MDS-MW1D-161220	12/20/2016	12.31	51.98	12/27/2016	0.20 U	6.0	6.7	0.20 U	0.20 U	1.5	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
PL-MW1	Qvi	Shallow	PL-MW-1	04/01/2013	18.71	82.31	04/01/2013	0.40 U	41	31	1.2	0.69	5.2	1.2	0.40 U	2.0 U	0.80 U	0.82	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	
			PL-MW1-130712	07/12/2013	17.80	82.83	11/8/2013	0.20 U	17	10	0.43	0.22	2.2	0.20 U	0.20 U	1.0 U	0.40 U	0.27	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U	
			PL-MW1-161219	12/19/2016	16.41	84.61	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
PL-MW2	Qvi	Shallow	PL-MW2-130710	07/10/2013	7.51	75.79	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			PL-MW2-161220	12/20/2016	6.57	76.35	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵															
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs					
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7
AOC 1 and 10 - Cragle and Jet Parking and Southern Portion of AOC 11 - Area Wide																							
PS-MW6	Recessional Outwash/Qvi	Shallow	PS-MW6-130711	07/11/2013	19.16	47.11	11/8/2013	0.40 U	50	20	16	0.40	4.7	0.40 U	0.40 U	2.0 U	0.80 U	0.40 U	0.40 U	0.40 U	0.56 U	0.40 U	0.40 U
			PS-MW6-161221	12/21/2016	16.46	49.74	12/27/2016	0.20 U	15	26	12	0.22	1.7	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PS-MW7	Recessional Outwash/Qvi	Shallow	PS-MW7-130715	07/15/2013	13.84	52.18	11/8/2013	1.0 U	180	38	1.6	1.0 U	5.9	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.5 U	1.0 U	1.0 U
			PS-MW7-161221	12/21/2016	13.03	53.00	12/27/2016	0.40 U	110	32	1.4	0.74	1.0	-	-	-	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
PS-MW8	Recessional Outwash/Qvi	Shallow	PS-MW8-130711	07/11/2013	19.70	45.03	11/8/2013	0.20 U	12	13	3.3	0.20 U	0.18	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U
			PS-MW8-161221	12/21/2016	16.95	47.89	12/27/2016	0.20 U	5.2	3.3	0.68	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
PS-MW9	Recessional Outwash/Qvi	Shallow	PS-MW9-130711	07/11/2013	12.25	43.27	11/8/2013	0.20 U	3.3	1.2	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U
			PS-MW9-161221	12/21/2016	10.33	45.00	12/27/2016	0.20 U	3.7	1.9	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SH-MW6	Silt/Qva	Deep	SH-MW6-130708	07/08/2013	12.15	36.77	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			SH-MW6-161221	12/21/2016	10.79	38.03	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SH-MW7	Silt/Qva	Deep	SH-MW7-130708	07/08/2013	12.41	36.19	11/8/2013	0.40 U	0.47	1.6	2.1	0.40 U	1.0	0.40 U	0.40 U	2.0 U	1.3	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
			SH-MW7-161228	12/28/2016	10.88	37.53	12/27/2016	0.20 U	0.5	1.1	1.5	0.20 U	0.41	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
SH-MW8	Qvi	Shallow	SH-MW8-161220	12/20/2016	20.38	27.47	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW1	Qva	Deep	UG-MW1-130702	07/02/2013	20.03	84.14	11/8/2013	0.40 U	1.1	19	0.81	0.63	9.7	56	0.40 U	2.0 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
			UG-MW1-161214	12/14/2016	18.84	84.92	12/27/2016	0.20 U	1.3	19	0.89	0.59	8.2	39	0.20 U	1.0 U	0.40 U	0.29	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW2R	Qvi	Shallow	UG-MW2R-130715	07/15/2013	17.10	81.34	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.29 U	0.20 U	0.20 U
			UG-MW2R-161216	12/16/2016	15.30	82.60	12/27/2016	0.20 U	0.46	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.34	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW5	Qva/Transition Zone	Deep	UG-MW5-130710	07/10/2013	31.40	93.23	11/8/2013	0.20 U	5.8	1.4	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW6	Unconfirmed	Unconfirmed	UG-MW6-130710	07/10/2013	23.48	86.79	11/8/2013	4.0 U	700	180	9.4	5.2	33	18	4.0 U	20 U	8.0 U	310	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
			UG-MW6-161216	12/16/2016	20.93	89.34	12/27/2016	4.0 U	600	220	32	6.6	40	19	4.0 U	20 U	8.0 U	360	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
UG-MW10	Silt/Qva	Deep	UG-MW10-130711	07/11/2013	-1.43	115.78	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U
UG-MW11	Qva	Deep	UG-MW11-130710	07/10/2013	8.29	106.71	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW12	Silt/Qva	Deep	UG-MW12-130710	07/10/2013	15.89	96.53	11/8/2013	0.20 U	0.40	5.8	0.20 U	0.21	0.93	30	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			UG-MW12-161216	12/16/2016	15.77	96.52	12/27/2016	0.20 U	0.53	6.5	0.20 U	0.20 U	0.86	30	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.3
			DUP-161216	12/16/2016	15.77	96.52	12/27/2016	0.20 U	0.52	6.3	0.20 U	0.2	0.83	30	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW15	Silt/Qva	Deep	UG-MW15-130710	07/10/2013	12.21	104.61	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵															
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs					
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7
AOC 6 - Upton Parcel																							
A6-MW1D	Qva	Deep	A6-MW1D-161205	12/05/2016	30.62	164.57	12/27/2016	0.40 U	60	0.40 U	0.40 U	0.40 U	0.40 U	-	-	-	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.62 U
A6-MW1S	Qvi	Shallow	A6-MW1S-161228	12/28/2016	9.31	185.97	12/27/2016	7.2	1.7	3.9	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A6-MW2D	Qva	Deep	A6-MW2D-161205	12/05/2016	13.20	160.85	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A6-MW2D	Qva	Deep	A6-MW2D-161228	12/28/2016	13.20	160.85	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U
A6-MW2S	Qvi	Shallow	A6-MW2S-161206	12/06/2016	6.93	167.62	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A6-MW2S	Qvi	Shallow	A6-MW2S-161228	12/28/2016	6.93	167.62	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A6-MW3S	Qvi	Shallow	A6-MW3S-161205	12/05/2016	10.28	210.38	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U
Y-MW1D	Qva	Deep	Y-MW1D-131029	10/29/2013	8.73	117.58	10/29/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			Y-MW1D-161209	12/09/2016	7.77	118.64	12/27/2016	0.20 U	0.23	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Y-MW1S	Qvi	Shallow	Y-MW1S-131029	10/29/2013	6.17	120.07	10/29/2013	0.20 U	19	0.23	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			Y-MW1S-161209	12/09/2016	5.70	120.96	12/27/2016	0.20 U	15	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Y-MW2D	Qva	Deep	Y-MW2D-131028	10/28/2013	22.02	103.34	10/28/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
Y-MW2S	Qvi	Shallow	Y-MW2S-131028	10/28/2013	11.12	114.33	10/28/2013	0.20 U	8.1	1.0	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			Y-MW2S-161212	12/12/2016	9.06	116.08	12/27/2016	0.20 U	8.7	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Y-MW3D	Qva	Deep	Y-MW3D-131028	10/28/2013	12.73	129.45	10/28/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			Y-MW3D-161207	12/07/2016	12.31	114.34	12/27/2016	0.20 U	0.97	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Y-MW3S	Qvi	Shallow	Y-MW3S-131028	10/28/2013	9.39	115.07	10/28/2013	0.20 U	1.2	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			Y-MW3S-161208	12/08/2016	7.96	118.51	12/27/2016	0.20 U	7.6	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.23	0.20 U
Y-MW4S	Qvi	Shallow	Y-MW4S-131028	10/28/2013	13.69	136.51	10/28/2013	0.20 U	43	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
Y-MW5S	Qvi	Shallow	Y-MW5S-131028	10/28/2013	0.58	150.71	10/28/2013	0.21 U	37	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Y-MW6S	Qvi	Shallow	Y-MW6S-131029	10/29/2013	9.54	137.96	10/29/2013	0.24	42	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
Y-MW7S	Qvi	Shallow	Y-MW7S-131029	10/29/2013	9.28	132.33	10/29/2013	0.20 U	45	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
Y-MW7S	Qvi	Shallow	Y-MW7S-161209	12/09/2016	11.50	130.24	12/27/2016	0.20 U	12	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW28	Qvi	Shallow	UG-MW28-130702	07/02/2013	18.88	131.33	07/02/2013	0.20 U	0.21	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			UG-MW28-131029	10/29/2013	18.62	132.52	10/29/2013	0.20 U	0.33	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			UG-MW28-161207	12/07/2016	18.91	132.23	12/27/2016	0.20 U	0.25	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW29D	Qva	Deep	UG-MW29D-130701	07/01/2013	19.62	129.67	07/01/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			UG-MW29D-131028	10/28/2013	19.81	129.45	10/28/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
UG-MW29S	Qvi	Shallow	UG-MW29S-130701	07/01/2013	11.33	137.80	07/01/2013	0.29	42	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.56	0.20 U
			UG-MW29S-131030	10/30/2013	11.11	137.93	10/30/2013	0.20 U	47	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.26 U	0.20 U	0.20 U
			UG-MW29S-161213	12/13/2016	15.88	133.29	12/27/2016	0.40 U	52	0.40 U	0.40 U	0.40 U	0.40 U	-	-	-	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵																
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs						
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)	
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7	
AOC7 - Tacoma Paper and Stationery																								
A7-MW1D	Qva	Deep	A7-MW1D-161219	12/19/2016	22.92	41.32	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A7-MW1S	Qvi	Shallow	A7-MW1S-161219	12/19/2016	9.35	55.12	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A7-MW2S	Qvi	Shallow	No GW samples	12/19/2016	-	Dry	12/27/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USC-MW1D	Qva	Deep	USC-MW1D-141027	10/27/2014	22.42	47.55	10/27/2014	1.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.39	0.42 U
			USC-MW1D-161219	12/19/2016	22.48	47.49	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
USC-MW1S	Qvi	Shallow	USC-MW1S-141027	10/27/2014	21.11	49.02	10/27/2014	330	3.0	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.2 U
			USC-MW1S-161219	12/19/2016	20.65	49.48	12/27/2016	250	2.2	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
JS-MW3	Qva	Deep	JS-MW3-130625	06/25/2013	36.52	52.83	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			JS-MW3-141017	10/27/2014	36.47	36.47	10/27/2014	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			JS-MW3-161215	12/15/2016	34.97	53.79	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
JS-MW3S	Qvi	Shallow	JS-MW3S-130913	09/13/2013	18.81	70.05	10/27/2014	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	8.7	0.20 U
			JS-MW3S-140122	01/22/2014	19.00	69.86	01/22/2014	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28
			JS-MW3S-141027	10/27/2014	18.40	70.46	10/27/2014	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			JS-MW3S-161215	12/15/2016	17.26	71.73	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
AOC9 - Kelly Parcel																								
A9-MW1D	Qva	Deep	A9-MW1D-161205	12/05/2016	7.46	148.61	12/27/2016	0.20 U	0.33	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U
A9-MW1S	Qvi	Shallow	A9-MW1S-161207	12/07/2016	9.61	146.21	12/27/2016	1.00	150	1.1	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
UG-MW16	Qvi	Shallow	UG-MW16-130617	06/17/2013	9.27	141.69	11/8/2013	1.9	170	1.1	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U
			UG-MW16-161206	12/06/2016	9.21	141.78	10/27/2014	1.4	140	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
UG-MW17	Qvi	Shallow	UG-MW17-130617	06/17/2013	3.72	151.66	11/8/2013	2.0 U	250	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	10 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.8 U
			UG-MW17-161207	12/07/2016	3.33	152.13	10/27/2014	2.7	280	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
AOC11 - Northern Portion of Area Wide (Westerly Plume)																								
A11-MW1D	Qva	Deep	A11-MW1D-161201	12/01/2016	37.47	177.49	12/27/2016	0.20 U	5.4	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.25 U
A11-MW1S	Qvi	Shallow	No GW samples	12/01/2016	-	Dry	12/27/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A11-MW2D	Qva	Deep	A11-MW2D-161202	12/02/2016	79.20	222.02	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.27 U
A11-MW2S	Qvi	Shallow	No GW samples	12/02/2016	-	Dry	12/27/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A11-MW3D	Qva	Deep	A11-MW3D-161202	12/02/2016	82.18	219.48	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.27 U
A11-MW5D	Qva	Deep	A11-MW5D-161202	12/02/2016	77.25	223.83	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.27 U
A11-MW6S	Qvi	Shallow	A11-MW6S-161201	12/01/2016	10.45	278.12	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.25 U
A11-MW7D	Qva	Deep	A11-MW7D-161202	12/02/2016	53.60	165.59	12/27/2016	0.20 U	11	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.27 U
A11-MW7S	Qvi	Shallow	A11-MW7D-18.5-21-W	08/12/2016	18.5 to 21	Grab	12/27/2016	0.20 U	3.1	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.24	0.25 U
			A11-MW7S-161202	12/02/2016	5.83	213.3	12/27/2016	2.0 U	290	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.6	2.0 U	2.0 U	2.0 U	2.0 U	2.7 U
A11-MW8S	Qvi	Shallow	A11-MW8S-161207	12/07/2016	5.28	136.94	12/27/2016	2.6	170	2.3	0.23	0.57	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A11-MW9S	Qvi	Shallow	A11-MW9S-161206	12/06/2016	6.05	152.84	12/27/2016	0.20 U	38	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A11-MW10D	Qva	Deep	A11-MW10D-161212	12/12/2016	30.79	56.18	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A11-MW10S	Qvi	Shallow	A11-MW10S-161212	12/12/2016	4.81	82.56	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
A11-MW11D	Qva	Deep	A11-MW11D-161214	12/14/2016	45.26	55.66	12/27/2016	0.20 U	31	0.40	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵																
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs						
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)	
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7	
AOC 11 - Northern Portion of Area Wide (Westerly Plume)																								
A11-MW11S	Qvi	Shallow	A11-MW11S-161214	12/14/2016	3.71	97.14	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
BA-MW2	Qva	Deep	BA-MW2-130617	06/17/2013	27.98	95.84	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28 U
	Qva	Deep	BA-MW2-161206	12/06/2016	28.07	96.21	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
DD-MW1	Qva	Deep	DD-MW1-130619	06/19/2013	19.91	101.79	11/8/2013	1.2	130	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5 U
	Qva	Deep	DD-MW1-161213	12/13/2016	17.63	104.49	12/27/2016	1.0 U	100	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
JS-MW1	Qva	Deep	JS-MW1-130618	06/18/2013	34.64	55.34	11/8/2013	0.20 U	1.4	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28 U
	Qva	Deep	JS-MW1-161215	12/15/2016	33.39	56.76	12/27/2016	0.20 U	2.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
JS-MW2	Qva	Deep	JS-MW2-130618	06/18/2013	34.76	55.41	11/8/2013	0.20 U	14	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.21	0.20 U	0.20 U	0.20 U	0.20 U	0.28 U
			JS-MW2-161215	12/15/2016	33.52	56.81	12/27/2016	0.20 U	12	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
JS-MW4D	Qva	Deep	JS-MW4D-130919	09/19/2013	40.18	53.48	11/8/2013	0.20 U	2.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			JS-MW4D-161219	12/19/2016	38.66	55.00	12/27/2016	0.20 U	3.1	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
JS-MW7A	Qvi	Shallow	JS-MW7A-140122	01/22/2014	11.02	85.73	11/8/2013	0.20 U	1.8	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.29 U
			JS-MW7A-161214	12/14/2016	4.95	91.8	12/27/2016	0.20 U	0.29	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW3	Qva	Deep	UG-MW3-130618	06/18/2013	44.35	55.28	11/8/2013	0.20 U	13	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.25	0.20 U	0.20 U	0.20 U	0.28 U
			UG-MW3-161213	12/13/2016	42.90	56.73	12/27/2016	0.20 U	19	0.32	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.30	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW4	Qva	Deep	UG-MW4-130619	06/19/2013	50.42	55.12	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
			UG-MW4-161213	12/13/2016	48.36	57.31	12/27/2016	0.20 U	0.42	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW4S	Qvi	Shallow	UG-MW4S-161214	12/14/2016	4.75	100.21	12/27/2016	0.20 U	4.2	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW7	Qva	Deep	UG-MW7-130619	06/19/2013	35.26	88.29	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.30 U
			UG-MW7-161213	12/13/2016	33.54	90.43	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW8	Qva	Deep	UG-MW8-130619	06/19/2013	32.62	90.49	11/8/2013	0.40 U	56	0.44	0.40 U	0.40 U	0.20 U	0.40 U	0.40 U	2.0 U	0.80 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.60 U
			UG-MW8-161213	12/13/2016	30.57	92.93	12/27/2016	0.40 U	55	0.41	0.40 U	0.40 U	0.40 U	-	-	-	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
UG-MW9	Qva	Deep	UG-MW9-130617	06/17/2013	29.80	93.74	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28 U
			UG-MW9-161206	12/06/2016	28.80	95.00	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW13	Qvi	Shallow	UG-MW13-130625	06/25/2013	20.72	101.81	11/8/2013	1.4	110	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
			UG-MW13-161216	12/16/2016	17.96	105	12/27/2016	0.85	93	0.94	0.40 U	0.40 U	0.40 U	-	-	-	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
UG-MW14	Unconfirmed	Unconfirmed	UG-MW14-130617	06/17/2013	21.43	112.34	11/8/2013	1.2	110	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U
			UG-MW14-161206	12/06/2016	20.30	113.45	12/27/2016	1.2	100	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
UG-MW18	Qva	Deep	UG-MW18-130614	06/14/2013	33.89	169.76	11/8/2013	12	1,200	10 U	10 U	10 U	5.0 U	10 U	10 U	50 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
			UG-MW18-161207	12/07/2016	33.31	170.64	12/27/2016	14	700	4.0	4.0 U	4.0 U	4.0 U	-	-	-	-	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
UG-MW19	Qva	Deep	UG-MW19-130614	06/14/2013	24.73	166.69	11/8/2013	5.6	300	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	2.0 U	10 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
			UG-MW19-161205	12/05/2016	24.48	167.27	12/27/2016	3.1	220	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
UG-MW20	Qva	Deep	UG-MW20-130614	06/14/2013	5.09	163.69	11/8/2013	1.0 U	170	1.8	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
			UG-MW20-161209	12/09/2016	5.15	164.49	12/27/2016	1.0 U	160	2.6	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
UG-MW21	Qva	Deep	UG-MW21-130618	06/18/2013	24.68	171.11	11/8/2013	0.20 U	7.7	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28 U
			UG-MW21-161205	12/05/2016	24.21	172.1	12/27/2016	0.20 U	6.9	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U
AOC 11 - Northern Portion of Area Wide (Westerly Plume)																								

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵																			
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs									
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)				
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7				
UG-MW22	Qva	Deep	UG-MW22-130614	06/14/2013	18.76	140.14	11/8/2013	0.20 U	14	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			UG-MW22-161213	12/13/2016	17.68	141.14	12/27/2016	0.20 U	13	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW23	Qva	Deep	UG-MW23-131003	10/03/2013	10.55	160.63	11/8/2013	0.20 U	5.5	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			UG-MW23-161212	12/12/2016	10.04	161.14	12/27/2016	0.20 U	4.5	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
UG-MW24	Qva	Deep	UG-MW24-130715	07/15/2013	30.88	165.47	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.29 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			UG-MW24-161205	12/05/2016	31.46	165.34	12/27/2016	0.20 U	0.31	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U	
UG-MW25D	Qva	Deep	UG-MW25D-130904	09/04/2013	36.73	165.32	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			UG-MW25D-161212	12/12/2016	36.84	165.21	12/27/2016	0.20 U	1.4	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			DUP-161212	12/12/2016	36.84	165.21	12/27/2016	0.20 U	1.3	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
UG-MW25S	Qvi	Shallow	UG-MW25S-130904	09/04/2013	2.07	200.53	11/8/2013	2.0 U	290	6.0	2.0 U	12	2.0 U	2.2	2.0 U	10 U	4.0 U	2.0 U	2.0 U	15	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
			UG-MW25S-161212	12/12/2016	1.38	201.22	12/27/2016	10 U	1,000	15	10 U	26	10 U	-	-	-	-	10 U	10 U	22	10 U	10 U	10 U	10 U	10 U	10 U	
UG-MW26	Qvi	Shallow	UG-MW26-130930	09/30/2013	-0.25	202.43	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			UG-MW26-161212	12/12/2016	0.03	202.15	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
UG-MW27	Qva	Deep	UG-MW27-130702	07/02/2013	23.05	125.52	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			UG-MW27-161207	12/07/2016	22.70	125.98	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
UG-MW27S	Qvi	Shallow	UG-MW27S-161207	12/07/2016	14.58	134.19	12/27/2016	0.20 U	22	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW30D	Qva	Deep	UG-MW30D-130712	07/12/2013	5.92	117.13	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.28 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	
			UG-MW30D-161206	12/06/2016	5.14	117.8	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW30S	Qvi	Shallow	UG-MW30S-130715-VOC	07/15/2013	4.56	118.26	11/8/2013	1.3	130	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U		
			UG-MW30S-161206	12/06/2016	4.08	118.62	12/27/2016	1.3	120	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
UG-MW31	Qvi	Shallow	UG-MW31-130904	09/04/2013	5.20	137.72	11/8/2013	1.0 U	120	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
			UG-MW31-161206	12/06/2016	5.15	137.77	12/27/2016	0.61	70	0.60	0.40 U	0.40 U	0.40 U	-	-	-	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U		
UG-MW32	Qvi	Shallow	UG-MW32-131003	10/03/2013	6.91	152.97	11/8/2013	0.20 U	39	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.21	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
			UG-MW32-161207	12/07/2016	6.46	153.42	12/27/2016	0.20 U	43	0.20	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW33	Qvi	Shallow	UG-MW33-131002	10/02/2013	6.61	176.96	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
			UG-MW33-161213	12/13/2016	8.76	174.81	12/13/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW34	Qvi	Shallow	UG-MW34-130923	09/23/2013	16.71	125.32	11/8/2013	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW35	Qvi	Shallow	UG-MW35-140122	01/22/2014	8.39	173.21	01/22/2014	0.20 U	0.24	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.29 U		
			UG-MW35-161213	12/13/2016	5.63	175.97	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW36	Qvi	Shallow	UG-MW36-140122	01/22/2014	8.22	172.02	01/22/2014	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.29 U		
			UG-MW36-161213	12/13/2016	7.31	172.93	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW36D	Qva	Deep	UG-MW36D-161213	12/13/2016	14.79	164.9	12/27/2016	0.20 U	0.87	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U			
UG-MW37	Qvi	Shallow	UG-MW37-130930	09/30/2013	1.51	195.78	11/8/2013	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U		
UG-MW37R	Qvi	Shallow	UG-MW37R-161205	12/05/2016	2.41	202.68	12/27/2016	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U		

Location Identification	Lithology of Well Screen	Well Screen Aquifer	Sample Identification ³	Sample Date	Depth of Ground water Below TOC	Water Level Elevation ⁴	Date of Water Level Measurement	VOCs (µg/L) ⁵																
								PCE, TCE and Associated Breakdown Products ⁵						BTEX ⁶				Other HVOCs						
								Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	Benzene	Ethylbenzene	Toluene	Total Xylenes ⁷	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	Chloroform	Dichlorodifluoromethane (CFC-12)	
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²								5	1.6	16	100	3.2	0.29	2.4	130	520	310	100	200	7.8	4.2	1.2	5.7	
AOC 11 - Northern Portion of Area Wide (Westerly Plume)																								
UG-MW38D	Qva	Deep	UG-MW38D-131003	10/02/2013	26.11	166.36	11/8/2013	6.7	160	1.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
			UG-MW38D-161205	12/05/2016	25.72	166.75	12/27/2016	3.0	110	2.3	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6 U
UG-MW38S	Qvi	Shallow	UG-MW38S-131001	10/01/2013	9.31	183.86	11/8/2013	0.20 U	1.4	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
			UG-MW38S-161205	12/05/2016	9.42	183.75	12/27/2016	0.20 U	4.4	0.23	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.31 U

Notes:

¹Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

²Remedial Investigation Groundwater Screening Level per the 2106 RI Work Plan.

³Sample ID = Area number - Monitoring well - Date (year, month, day) (i.e., A11-MW10D-161212).

⁴Surveyed elevations taken from AHBL 2016 and 2014 Survey, National Geodetic Vertical Datum 1929 (NGVD 29) vertical datum and URS 2007 Upgradient TCE Assessment, NGVD 29 vertical datum.

⁵Volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) method 8260B. Other VOCs were analyzed but not detected and not current chemicals of concern.

⁶Total xylenes consists of m,p- and o- xylenes. The higher detection limit is shown.

J = Estimated result by the analytical laboratory.

U = Analyte was not detected at or greater than the listed reporting limit.

Italics = The listed reporting limit is greater than the applicable cleanup level.

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Bold font type and gray shading indicates that the detected concentration is greater than the respective RIGSL cleanup level.

ND = Not determined

QVI = Ice-contact deposits

NE = Not established

MTCA = Model Toxics Control Act

VOCs = Volatile organic compounds

µg/L = Microgram per liter

RI = Remedial Investigation

EPA = United States Environmental Protection Agency

Ecology = Washington State Department of Ecology

Qva = Advance outwash

BTEX = Benzene, toluene, ethylbenzene and xylenes

Location Identification	Sample Identification ³	Sample Date	Start Depth (feet bgs)	End Depth (feet bgs)	VOCs (mg/kg) ⁴								
					PCE, TCE and Associated Breakdown Products ⁵						Other HVOCs		
					Tetrachloroethane	Trichloroethene	1,1-Dichloroethene	cis-1,2-Dichloroethene	Trans-1,2-Dichloroethene	Vinyl Chloride	Chlorobenzene	1,1,1-Trichloroethane	1,1-Dichloroethane
Remedial Investigation Soil Screening Levels (Vadose Zone) (mg/kg) ²					0.054	0.001	0.023	0.08	0.54	0.0018	0.87	1.6	0.042
Remedial Investigation Soil Screening Levels (Saturated) (mg/kg) ²					0.0027	0.0001	0.0011	0.004	0.027	0.001	0.043	0.08	0.0021
AOC 9 - Kelly Parcel													
A9-MW1D	A9-MW1D-4-5	08/16/2016	4	5	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U
	A9-MW1D-9-10	08/16/2016	9	10	0.00059 U	0.002	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U	0.00059 U
	A9-MW1D-14-15	08/16/2016	14	15	0.00083 U	0.0036	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U
	A9-MW1D-19-20	08/16/2016	19	20	0.00072 U	0.0014	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U	0.00072 U
	A9-MW1D-24-25	08/16/2016	24	25	0.00082 U	0.0029	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U	0.00082 U
	A9-MW1D-30-31	08/16/2016	30	31	0.00069 U	0.0018	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U
	A9-MW1D-36-36.5	08/16/2016	36	36.5	0.00083 U	0.0018	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U	0.00083 U
	A9-MW1D-38-39	08/16/2016	38	39	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U
	A9-MW1D-42-43	08/16/2016	42	43	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
	A9-MW1D-49-50	08/16/2016	49	50	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
A9-MW1D-59-60	08/16/2016	59	60	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	0.00096 U	
A9-MW1D-69-70	08/16/2016	69	70	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0014 U	
AOC 11- Area Wide Groundwater													
A9-MW1D	A11-MW1D-5.5-6	08/10/2016	5.5	6	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW1D-9-10	08/10/2016	9	10	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U
	A11-MW1D-17-17.5	08/10/2016	17	17.5	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
	A11-MW1D-17.5-18	08/10/2016	17.5	18	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
	A11-MW1D-20-21	08/10/2016	20	21	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	DUP1-20160810	08/10/2016	20	21	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
	A11-MW1D-29-30	08/10/2016	29	30	0.00098 U	0.0051	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U
	A11-MW1D-38-39	08/10/2016	38	39	0.00084 U	0.00089	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U
	A11-MW1D-44-45	08/10/2016	44	45	0.00094 U	0.003	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U
	A11-MW1D-49-50	08/10/2016	49	50	0.00073 U	0.027	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U	0.00073 U
A11-MW1S	A11-MW1S-1-2	08/11/2016	1	2	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	DUP1-20160811	08/11/2016	1	2	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW1S-9-10	08/11/2016	9	10	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U	0.00087 U
	A11-MW1S-16-16.5	08/11/2016	16	16.5	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
	A11-MW1S-16.5-17	08/11/2016	16.5	17	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
A11-MW2D	A11-MW2D-3-4	07/27/2016	3	4	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
	A11-MW2D-4-5	07/27/2016	4	5	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U	0.00078 U
	A11-MW2D-25-26	07/27/2016	25	26	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW2D-26-26.5	07/27/2016	26	26.5	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
	A11-MW2D-26.5-27	07/27/2016	26.5	27	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U
	A11-MW2D-10-11	07/27/2016	10	11	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW2D-19-20	07/27/2016	19	20	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U
	A11-MW2D-32-33	07/27/2016	32	33	0.00097 U	0.00097 U	0.00097 U	0.00097 U	0.00097 U	0.00097 U	0.00097 U	0.00097 U	0.00097 U
	A11-MW2D-36-37	07/27/2016	36	37	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U	0.00094 U
	A11-MW2D-40-40.5	07/27/2016	40	40.5	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U	0.00081 U
	A11-MW2D-42-43	07/27/2016	42	43	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW2D-43-44	07/27/2016	43	44	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U	0.00079 U
	A11-MW2D-46-47	07/27/2016	46	47	0.00070 U	0.00070 U	0.00070 U	0.00070 U	0.00070 U	0.00070 U	0.00070 U	0.00070 U	0.00070 U
	A11-MW2D-52-53	07/27/2016	52	53	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U	0.00090 U
	A11-MW2D-57-58	07/27/2016	57	58	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW2D-72-73	07/28/2016	72	73	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U	0.00092 U
	A11-MW2D-77-78	07/28/2016	77	78	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U	0.00091 U
	A11-MW2D-78-79	07/28/2016	78	79	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U	0.00069 U
	A11-MW2D-89-90	07/28/2016	89	90	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U
	DUP1-20160728	07/28/2016	89	90	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U
A11-MW2D-94-95	07/28/2016	94	95	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	0.00080 U	
A11-MW2D-99-100	07/28/2016	99	100	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	0.00084 U	
A11-MW3D	A11-MW3D-6-7	08/02/2016	6	7	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	A11-MW3D-12-12.5	08/02/2016	12	12.5	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
	A11-MW3D-12.5-13	08/02/2016	12.5	13	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U	0.00088 U
	A11-MW3D-21-22	08/02/2016	21	22	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U
	A11-MW3D-31-32	08/02/2016	31	32	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U	0.00095 U
	A11-MW3D-44-45	08/02/2016	44	45	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U
	A11-MW3D-49-49.5	08/02/2016	49	49.5	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
	A11-MW3D-51-52	08/02/2016	51	52	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U	0.00093 U
	A11-MW3D-62-63	08/02/2016	62	63	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	A11-MW3D-72-73	08/02/2016	72	73	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U	0.00089 U
	A11-MW3D-79-80	08/03/2016	79	80	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U	0.0011 U
	A11-MW3D-83-84	08/03/2016	83	84	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U	0.00098 U
	A11-MW3D-91-92	08/03/2016	91	92	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U	0.00099 U
A11-MW3D-94-95	08/03/2016	94	95	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	0.00076 U	
A11-MW3D-99-100	08/03/2016	99	100	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U	

Table 7

Summary of Petroleum Hydrocarbons, Lead and PAHs- Groundwater¹
Agreed Order Remedial Investigation 2016 Data Summary Report
University of Washington - Tacoma, Washington

					Petroleum Hydrocarbons (µg/L) ⁴			Metals (µg/L) ⁵	PAHs (µg/L) ⁶
Analyte					Gasoline-range Hydrocarbons	Diesel-range Hydrocarbons	Lube Oil-range Hydrocarbons	Lead	PAHs
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²					800	500	500	8.1	Varies
Location ID	Lithology of Well Screens	Well Screen Aquifer	Sample Identification ³	Sample Date					
AOC 1 and 10 - Cragle and Jet Parking and Southern Portion of AOC 11 - Area Wide (Easterly Plume)									
BA-MW1	Unconfirmed	Deep	BA-MW1-130711	07/11/2013	100 U	280 U	450 U	--	--
			BA-MW1-161216	12/16/2016	100 U	--	--	--	--
BL-MW1	Fill/Recessional Outwash	Unconfirmed	BL-MW1-130709	07/09/2013	100 U	280 U	450 U	--	--
			BL-MW1-161221	12/21/2016	100 U	--	--	--	--
BL-MW3	Fill/Recessional Outwash	Shallow	BL-MW3-130911	09/11/2013	100 U	260 U	420 U	7.4	--
BL-MW4	Qvi/Silt/Advance Outwash	Unconfirmed	BL-MW4-130708	07/08/2013	100 U	280 U	460 U	--	--
			BL-MW4-161215	12/15/2016	100 U	--	--	--	--
BL-MW5	Recessional Outwash/Qvi/Silt	Unconfirmed	BL-MW5-130709	07/09/2013	100 U	270 U	430 U	--	--
			BL-MW5-161221	12/21/2016	100 U	--	--	--	--
CR-MW15	Qva	Deep	CR-MW15S-130908	09/05/2013	100 U	260 U	420 U	1.1 U	--
			CR-MW15-161228	12/28/2016	100 U	--	--	--	--
CR-MW3	Qvi	Shallow	CR-MW3-130709	07/09/2013	100 U	260 U	410 U	--	--
			CR-MW3-161220	12/20/2016	100 U	--	--	--	--
CR-MW5	Fill/Qvi	Shallow	CR-MW5-130709	07/09/2013	100 U	320	410 U	--	--
			CR-MW5-161222	12/22/2016	100 U	--	--	--	--
CR-MW6	Fill/Recessional Outwash	Shallow	CR-MW6-130709	07/09/2013	100 U	260 U	420 U	--	--
			CR-MW6-161222	12/22/2016	100 U	--	--	--	--
CR-MW8	Fill/Recessional Outwash	Shallow	CR-MW8-130702	07/02/2013	100 U	270 U	440 U	--	--
			CR-MW8-161221	12/21/2016	100 U	--	--	--	--
CR-MW9	Fill/Recessional Outwash	Shallow	CR-MW9-130708	07/08/2013	3,300	730 U	410 U	--	--
			CR-MW9-161221	12/21/2016	650	--	--	--	--
DD-MW2	Qva	Deep	DD-MW2-130709	07/09/2013	100 U	260 U	420 U	--	--
			DD-MW2-161207	12/07/2016	100 U	--	--	--	--
JP-MW1R	Qvi	Shallow	JP-MW1R	04/03/2013	100 U	260 U	410 U	1.1 U	--
			JP-MW1R-130712	07/12/2013	100 U	270 U	430 U	--	--
			JP-MW1R-161214	12/14/2016	100 U	--	--	--	--
JP-MW2	Unconfirmed	Unconfirmed	JP-MW2-130702	07/02/2013	540 J	270 U	430 U	--	--
			JP-MW2-161214	12/14/2016	380 J	--	--	--	--
JS-MW5	Qva	Deep	JS-MW5S-130912	09/12/2013	100 U	260 U	410 U	1.0 U	--
			JS-MW5-161214	12/14/2016	100 U	--	--	--	--
JS-MW6D	Qva	Deep	JS-MW6D-130913	09/13/2013	100 U	260 U	410 U	1.0 U	--
			JS-MW6D-161214	12/14/2016	100 U	--	--	--	--
JS-MW6S	Qvi	Shallow	JS-MW6S-130912	09/12/2013	100 U	270 U	430 U	1.7	--
			JS-MW6S-161212	12/12/2016	100 U	--	--	--	--
PL-MW1	Qvi	Shallow	PL-MW-1-130401	04/01/2013	100 U	260 U	420 U	1.7	--
			PL-MW1-130712	07/12/2013	100 U	260 U	410 U	--	--
PL-MW2	Qvi	Shallow	PL-MW2-130710	07/10/2013	100 U	290 U	470 U	--	--
			PL-MW2-161220	12/20/2016	100 U	--	--	--	0.097 U
PS-MW6	Recessional Outwash/Qvi	Shallow	PS-MW6-130711	07/11/2013	100 U	1,000	420 U	--	--
			PS-MW6-161221	12/21/2016	--	5,300	650 U	--	--
PS-MW7	Recessional Outwash/Qvi	Shallow	PS-MW7-130715	07/15/2013	100 U	1,200	430 U	--	--
			PS-MW7-161221	12/21/2016	--	21,000	1600 U	--	--
PS-MW8	Recessional Outwash/Qvi	Shallow	PS-MW8-130711	07/11/2013	100 U	270 U	430 U	--	--
			PS-MW8-161221	12/21/2016	--	260 U	450	--	--
PS-MW9	Recessional Outwash/Qvi	Shallow	PS-MW9-130711	07/11/2013	100 U	280 U	450 U	--	--
			PS-MW9-161221	12/21/2016	--	260 U	410 U	--	--
SH-MW6	Silt/Qva	Deep	SH-MW6-130708	07/08/2013	100 U	270 U	430 U	--	--
			SH-MW6-161221	12/21/2016	100 U	--	--	--	--
SH-MW7	Silt/Qva	Deep	SH-MW7-130708	07/08/2013	1,100	520 U	420 U	--	--
			SH-MW7-161228	12/28/2016	340	--	--	--	--
SH-MW8	Qvi	Shallow	SH-MW8-161220	12/20/2016	130	--	--	--	--
UG-MW1	Qva	Deep	UG-MW1-130702	07/02/2013	100 U	270 U	440 U	--	--
			UG-MW1-161214	12/14/2016	100 U	--	--	--	--
UG-MW2R	Qvi	Shallow	UG-MW2R-130715	07/15/2013	100 U	290 U	460 U	--	--
			UG-MW2R-161216	12/16/2016	100 U	--	--	--	--
UG-MW10	Silt/Qva	Deep	UG-MW10-130711	07/11/2013	100 U	270 U	430 U	--	--
UG-MW11	Qva	Deep	UG-MW11-130710	07/10/2013	100 U	270 U	430 U	--	--
UG-MW12	Silt/Qva	Deep	UG-MW12-130710	07/10/2013	100 U	260 U	410 U	--	--
			UG-MW12-161216	12/16/2016	100 U	--	--	--	--
			DUP-161216	12/16/2016	100 U	--	--	--	--
UG-MW15	Silt/Qva	Deep	UG-MW15-130710	07/10/2013	100 U	260 U	410 U	--	--
UG-MW5	Qva/Transition Zone	Deep	UG-MW5-130710	07/10/2013	100 U	280 U	440 U	--	--
UG-MW6	Unconfirmed	Unconfirmed	UG-MW6-130710	07/10/2013	890 J	260 U	420 U	--	--
			UG-MW6-161216	12/16/2016	790 J	--	--	--	--

					Petroleum Hydrocarbons (µg/L) ⁴			Metals (µg/L) ⁵	PAHs (µg/L) ⁶
Analyte					Gasoline-range Hydrocarbons	Diesel-range Hydrocarbons	Lube Oil-range Hydrocarbons	Lead	PAHs
Remedial Investigation Groundwater Screening Level (RIGSL) (µg/L) ²					800	500	500	8.1	Varies
Location ID	Lithology of Well Screens	Well Screen Aquifer	Sample Identification ³	Sample Date					
AOC 8 - Derville Parcel									
UG-MW24	Qva	Deep	UG-MW24-161205	12/05/2016	--	260 U	410 U	--	--
			UG-MW24-130715	07/15/2013	100 U	260 U	420 U	1.1 U	--
UG-MW37	Qvi	Shallow	UG-MW37-130930	09/30/2013	100 U	260 U	550	1.0 U	--
UG-MW37R	Qvi	Shallow	UG-MW37R-161205	12/05/2016	--	260 U	410 U	--	--
AOC 9 - Kelly Parcel									
A9-MW1D	Qva	Deep	A9-MW1D-161205	12/05/2016	100 U	--	--	--	--
A9-MW1S	Qvi	Shallow	A9-MW1S-161207	12/07/2016	100 U	--	--	--	--
UG-MW16	Qvi	Shallow	UG-MW16-161206	12/06/2016	100 U	--	--	1.1 U	--
UG-MW17	Qvi	Shallow	UG-MW17-161207	12/07/2016	100 U	--	--	1.0 U	--
UG-MW31	Qvi	Shallow	UG-MW31-130904	09/04/2013	100 U	260 U	420 U	1.1 U	--
			UG-MW31-161206	12/06/2016	100 U	--	--	--	--

Notes:

¹ Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

² Remedial Investigation Groundwater Screening Level per the 2106 RI Work Plan.

³ Sample ID = Area number - Monitoring well - Date (year, month, day) (i.e., A11-MW10D-161212).

⁴ Gasoline-range petroleum hydrocarbons by Washington State Department of Ecology (Ecology)-approved method NWTPH-Gx, Diesel- and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx

⁵ Total lead by United States EPA method 6010C.

⁶ Polycyclic Aromatic Hydrocarbons (PAHs) by United States Environmental Protection Agency (EPA) method 8270D-SIM. All PAHs were not detected and the greatest detection limit is shown.

µg/L = microgram per liter

RI = Remedial Investigation

EPA = United States Environmental Protection Agency

-- = Sample not analyzed

Qva = Advance outwash

Ecology = Washington State Department of Ecology

Qvi = Ice-contact deposits

-- = Sample not analyzed

J = Estimated result

U = Analyte was not detected at or greater than the listed reporting limit

Italics = The listed reporting limit is greater than the applicable cleanup level

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Bold font type and gray shading indicates that the detected concentration is greater than the respective RIGSL cleanup level.

Table 8

Summary of Petroleum Hydrocarbons and Related VOCs - Soil¹
Agreed Order Remedial Investigation 2016 Data Summary Report
University of Washington - Tacoma, Washington

Analyte						Petroleum Hydrocarbons (mg/kg) ⁴			BTEX (mg/kg) ⁵				
						Gasoline-Range	Diesel-Range	Lube Oil-Range	Benzene	Ethylbenzene	Toluene	Xylene, m-p-	Xylene, o-
Remedial Investigation Soil Screening Level (Vadose Zone) ²						30	2,000	2,000	0.014	1.1	3.8	4.7	2.7
Remedial Investigation Soil Screening Level (Saturated Zone) ²						30	2,000	2,000	0.001	0.056	0.19	0.23	0.14
Location Identification	Sample Identification ³	Sample Date	Start Depth (Feet bgs)	End Depth (Feet bgs)	Ground Surface Elevation (Feet)								
AOC 6 - Upton Parcel													
A6-MW1D	A6-MW1D-0-1	08/09/2016	0	1	195.61	23 U	57 U	110 U	0.00095 U	0.00095 U	0.0048 U	0.0019 U	0.00095 U
	A6-MW1D-1-2	08/09/2016	1	2	195.61	24 U	64	410	0.0011 U	0.0011 U	0.0055 U	0.0022 U	0.0011 U
A6-MW1S	A6-MW1S-0-1	08/10/2016	0	1	195.62	23 U	72	290	0.0013 U	0.0013 U	0.01	0.0027 U	0.0013 U
	A6-MW1S-1-2	08/10/2016	1	2	195.62	24 U	61 U	120 U	0.0014 U	0.0014 U	0.026	0.0027 U	0.0014 U
A6-MW2D	A6-MW2D-0-1	08/18/2016	0	1	174.55	21 U	86 U	1,400	--	--	--	--	--
	A6-MW2S-0-1	08/22/2016	0	1	174.80	22 U	54 U	110 U	--	--	--	--	--
	A6-MW2S-1-2	08/22/2016	1	2	174.80	22 U	54 U	110 U	--	--	--	--	--
	A6-MW2S-6-7	08/22/2016	6	7	174.80	22 U	55 U	110 U	--	--	--	--	--
A6-MW3S	A6-MW3S-1-2	08/01/2016	1	2	221.00	23 U	56 U	110 U	--	--	--	--	--
	A6-MW3S-4-4.5	08/01/2016	4	4.5	221.00	23 U	59 U	120 U	--	--	--	--	--
AOC 9 - Kelly Parcel													
A9-MW1D	A9-MW1D-0-1	08/16/2016	0	1	156.48	21 U	53 U	510	--	--	--	--	--
	A9-MW1D-4-5	08/16/2016	4	5	156.48	22 U	54 U	110 U	--	--	--	--	--
	A9-MW1D-7-8	08/16/2016	7	8	156.48	22 U	56 U	110 U	--	--	--	--	--
A9-MW1S	A9-MW1S-1-2	08/17/2016	1	2	156.14	22 U	54 U	110 U	--	--	--	--	--
	A9-MW1S-4-5	08/17/2016	4	5	156.14	22 U	54 U	110 U	--	--	--	--	--
	A9-MW1S-9-10	08/17/2016	9	10	156.14	22 U	54 U	110 U	--	--	--	--	--
AOC 11 - Area Wide Groundwater													
A11-MW9S	A11-MW9S-0-1	08/15/2016	0	1	159.18	24 U	44 U	270	--	--	--	--	--
	A11-MW9S-2-3	08/15/2016	2	3	159.18	22 U	54 U	110 U	--	--	--	--	--
A11-MW10D	A11-MW10D-1-2	08/26/2016	1	2	87.37	22 U	56 U	110 U	--	--	--	--	--
	A11-MW10D-2-3	08/26/2016	2	3	87.37	24 U	59 U	120 U	--	--	--	--	--
A11-MW10S	A11-MW10S-1-2	08/26/2016	1	2	87.64	22 U	54 U	110 U	--	--	--	--	--
A11-MW11D	A11-MW11D-0-4 Comp	08/26/2016	0	4	101.12	23 U	58 U	120 U	--	--	--	--	--
	A11-MW11D-7-8	08/24/2016	7	8	101.12	22 U	54 U	110 U	--	--	--	--	--
UG-MW36D	UG-MW36D-0-1	08/22/2016	0	1	180.05	22 U	55 U	110 U	--	--	--	--	--
	UG-MW36D-2-3	08/22/2016	2	3	180.05	70 J	570 J	2,300 J	--	--	--	--	--
	UG-MW36D-3-4	08/22/2016	3	4	180.05	190 J	1,300 J	4,300 J	0.020 U	0.061 U	0.061 U	0.061 U	8.2
	UG-MW36D-4-5	08/22/2016	4	5	180.05	5.2 U	26 U	53 U	--	--	--	--	--
UG-MW4S	UG-MW4S-0-1	08/25/2016	0	1	105.40	22 U	31 U	290	--	--	--	--	--
	UG-MW4S-3-4	08/25/2016	3	4	105.40	23 U	57 U	110 U	--	--	--	--	--

Notes:

- ¹ Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.
 - ² Remedial Investigation Screening Level as calculated in the 2016 RI Work Plan, GeoEngineers.
 - ³ Sample ID = Area number - boring- start depth and end depth (feet bgs) (Ex. A11-MW10D-1-2 was collected from boring A11-MW10D from 1 to 2 feet bgs).
 - ⁴ Petroleum hydrocarbon identification by Ecology-approved method NWTPH-HCID with follow-up analysis of gasoline-range petroleum hydrocarbons by Ecology-approved method NWTPH-Gx, Diesel and lube oil-range petroleum hydrocarbons by Ecology-approved method NWTPH-Dx.
 - ⁵ VOCs were analyzed by EPA method 8260B. Other VOCs were analyzed but not detected or reported on Table 6.
- mg/Kg = Milligram per kilogram
 BTEX = Benzene, toluene, ethylbenzene and zylenes
 J = Estimated result
 RI = Remedial Investigation
 U = Analyte was not detected at or greater than the listed reporting limit.
 -- = Sample not analyzed
 PAHs = polycyclic aromatic hydrocarbons
- Bold** font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.
Bold font type and gray shading indicates that the detected concentration is greater than the respective RIGSL cleanup level.

Notes:

¹ Chemical analysis performed by OnSite Environmental, Inc., of Redmond, Washington.

² Remedial Investigation Soil Screening Level as calculated in the 2016 RI Work Plan, GeoEngineers.

³ Sample ID = Area number - boring- start depth and end depth (feet bgs) (i.e., A11-MW10D-1-2 was collected from boring A11-MW10D from 1 to 2 feet bgs).

⁴ Total metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) by EPA methods 6010C, 7196A, 7196AMOD and 7471B.

⁵ Polycyclic aromatic hydrocarbons (PAHs) by EPA method 8270D SIM.

mg/Kg = milligram per kilogram

bgs = Below ground surface

NE = Not established

RI = Remedial Investigation

J = Estimated result

Italics = The listed reporting limit is greater than the applicable cleanup level.

U = Analyte was not detected at or greater than the listed reporting limit.

Bold font type indicates that the analyte was detected at a concentration greater than the respective laboratory reporting limit.

Bold font type and gray shading indicates that the detected concentration is greater than the respective RIGSL cleanup level.

EPA = United States Environmental Protection Agency

-- = Sample not analyzed

PAHs = Polycyclic aromatic hydrocarbons

Table 10
Soil Physical Parameters for Select Samples
 Agreed Order Remedial Investigation 2016 Data Summary Report
 University of Washington - Tacoma, Washington

Boring ID	Sample ID	Interpreted Lithology	Soil Description	Group Symbol	Grain Size Distribution ¹					Total Organic Carbon (% carbon) ²	pH ³	Bulk Density ⁴				Porosity ⁵		
					Gravel Fraction >3 inches (% retained) ¹	Sand Fraction -75 to 2000 micron (% retained) ¹	Silt Fraction -3.2 to 75 micron (% retained) ¹	Clay Fraction <3.2 (% retained) ¹	Total Fines (%) ¹			Wet Density, pcf	Moisture Content, %	Dry Density, pcf	Specific Gravity	Porosity	Void Ratio	Percent Saturation %
A6-MW1D	A6-MW1D-14-15	Qvi	Silty sand with gravel	SM	25.8	48.7	20.3	5.2	25.5	0.044 U	7.34	124.5	6.9	116.4	2.73	31.80	0.47	11.9
	A6-MW1D-20-21	Silt?	Silty sand with gravel	SM	22.1	50.0	21.2	6.8	28.0	0.046 U	7.11	114.9	7.4	107.0	NA	NA	NA	NA
	A6-MW1D-35-36	Qva	Poorly graded gravel with silt and sand	GP-GM	63.9	27.1	6.6	2.3	8.9	0.045 U	8.16	130.2	7.4	121.2	NA	NA	NA	NA
	A6-MW1D-44-45	Qva	Poorly graded gravel with silt and sand	GP-GM	47.5	46.4	4.9	1.2	6.1	0.044 U	7.60	132.0	7.6	122.6	NA	NA	NA	NA
A9-MW1D	A9-MW1D-16-17	Qvi	Poorly graded gravel with silt and sand	GP-GM	69.9	23.2	4.2	2.7	7.0	0.041 U	7.59	118.3	4.7	112.9	NA	NA	NA	NA
	A9-MW1D-19-20	Qvi	Poorly graded gravel with sand	GP	62.7	33.1	3.1	1.1	4.2	--	--	--	--	--	--	--	--	--
	A9-MW1D-23-24	Qvi	Poorly graded sand with silt and gravel	SP-SM	43.6	47.9	6.5	2.0	8.5	--	--	--	--	--	--	--	--	--
	A9-MW1D-33-34	Qvi	Poorly graded gravel with silt and sand	GP-GM	65.9	27.2	4.3	2.5	6.9	0.042 U	8.21	117.6	4.7	112.3	NA	NA	NA	NA
	A9-MW1D-44-45	Silt	Silt with sand	ML	0.0	11.0	73.1	15.9	89.0	0.43	8.24	111.8	2.2	91.7	2.73	46.20	0.86	69.5
	A9-MW1D-64-65	Qva	Silty sand	SM	0.0	57.2	40.2	2.6	42.8	0.38	8.63	120.9	2.4	97.1	NA	NA	NA	NA
UG-MW36D	UG-MW36D-8-9	Qvi	Silty sand with gravel	SM	16.5	52.6	26.3	4.6	30.9	0.043 U	--	119.4	5.9	112.7	NA	NA	NA	NA
	UG-MW36D-10-11	Silt?	Silty sand with gravel	SM	31.7	40.0	24.0	4.3	28.3	0.044 U	7.95	127.4	7.3	118.8	2.73	30.22	0.43	9.9
	UG-MW36D-24-25	Qva	Poorly graded gravel with silt and sand	GP-GM	62.5	32.2	4.0	1.3	5.3	0.043 U	8.20	134.5	6.8	125.9	NA	NA	NA	NA
	UG-MW36D-29-30	Qva	Poorly graded gravel with silt and sand	GP-GM	64.1	28.5	5.0	2.4	7.4	0.042 U	7.62	126.2	7.3	117.6	NA	NA	NA	NA

Notes:

¹ Grain size distribution according to ASTM D422. The samples were prepared according to ASTM D 421.

² Total organic carbon (TOC) by United States Environmental Protection Agency (EPA) method 9060A.

³ pH by EPA method 9045D.

⁴ Bulk Density by ASTM D7263, Method B.

⁵ Porosity by EM 1110-2-1906.

-- = Not analyzed

U = Analyte was not detected at or greater than the listed reporting limit.

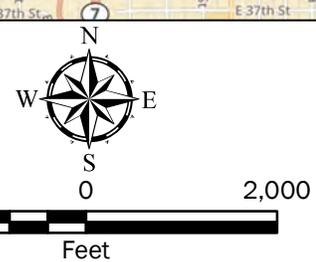
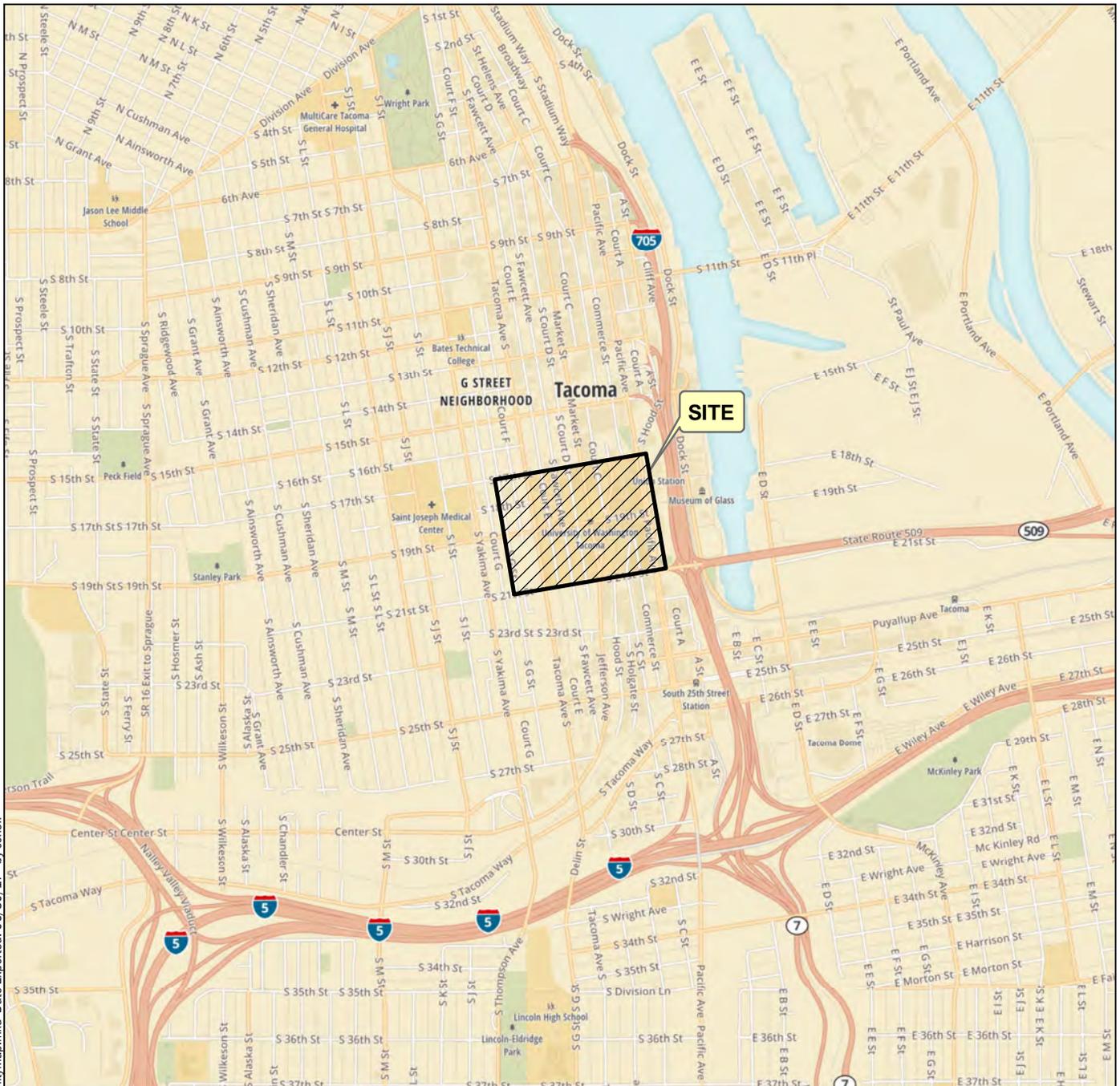
TOC = Total organic carbon

Qvi = Ice-contact deposits

Qva = Advance outwash

Silt = Semiconfining to confining layer

ASTM = ASTM International



Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Mapbox Open Street Map, 2015

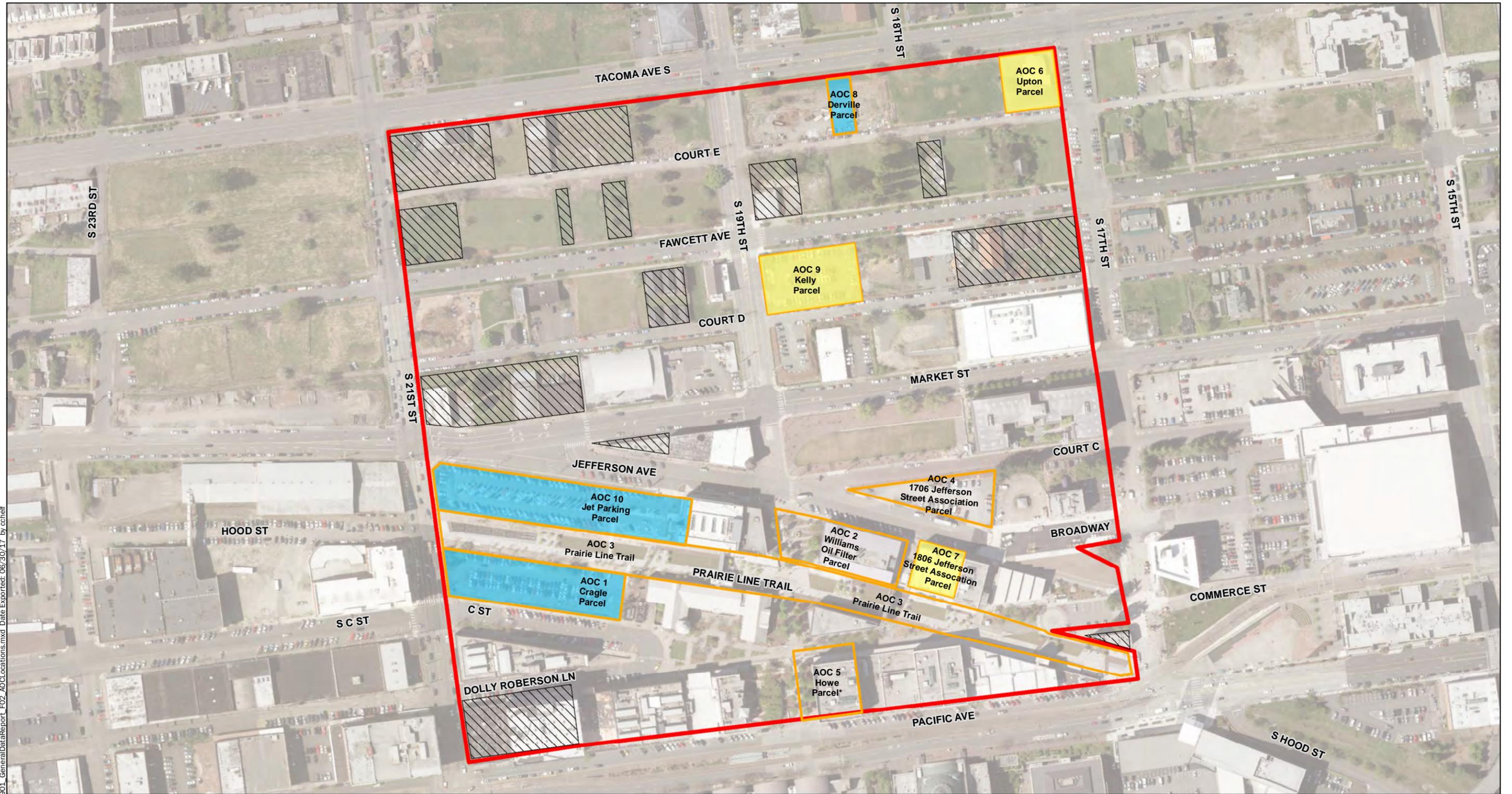
Projection: NAD 1983 UTM Zone 10N

Vicinity Map

Agreed Order Remedial Investigation 2016 Data Report
 University of Washington – Tacoma
 Tacoma, Washington

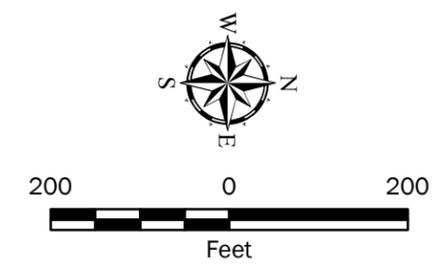


Figure 1

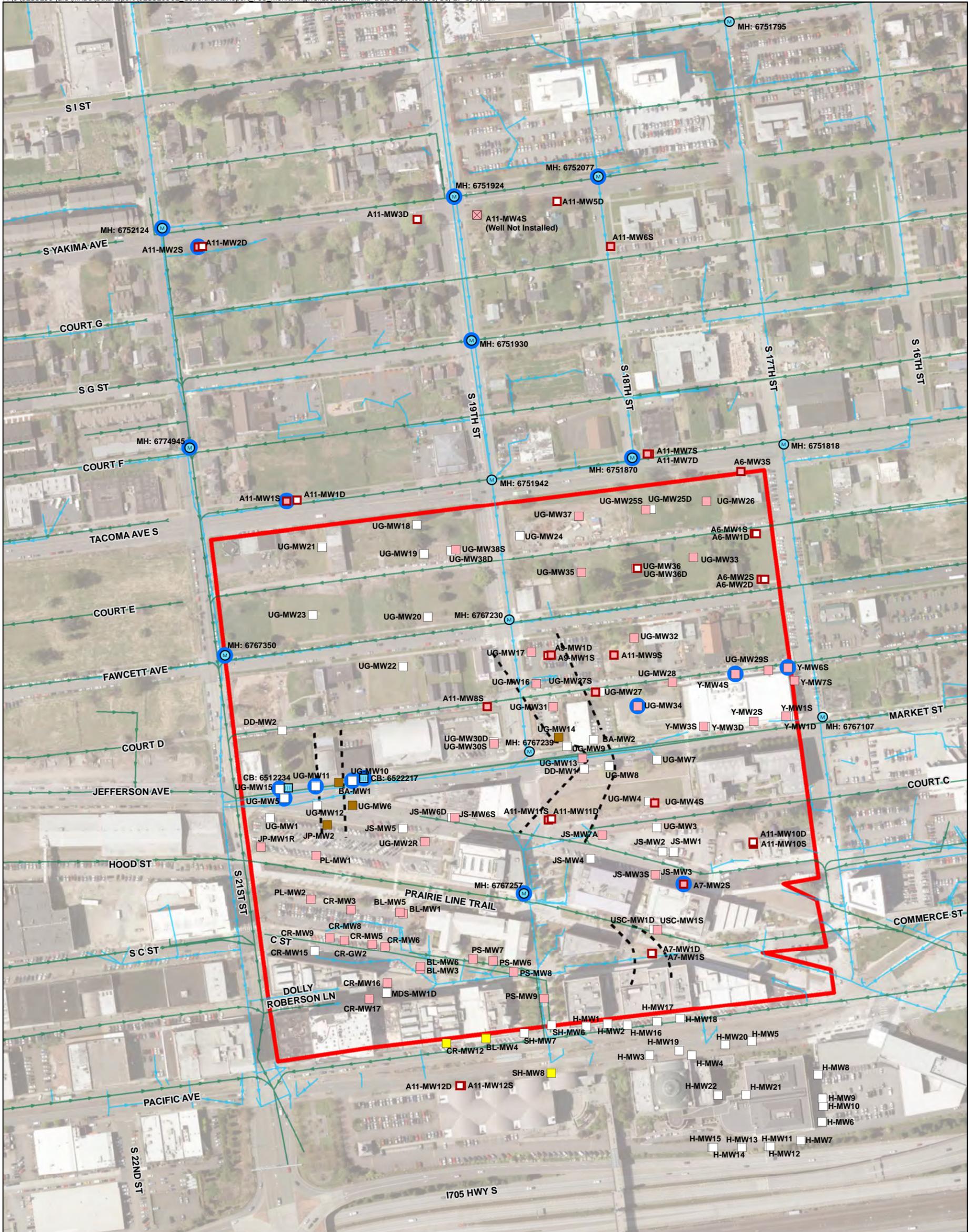


Notes:
 *Groundwater sampling was completed on the Howe Parcel during 2016 but reported separately. See the GeoEngineers report titled "Groundwater Compliance Monitoring Data Summary Report - 2016 Annual Report Howe Parcel Interim Action, University of Washington - Tacoma, Washington, Agreed Order No. DE97HW-S238, CPD Project No. 2050761" Dated December 7, 2016
 AOC = Area of Concern, RI = Remedial Investigation
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 Data Source: Aerial from City of Tacoma 2015
 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

- Legend**
- UWT Master Plan Campus Boundary
 - AOC Location
 - AOC 11 Not Shown (Other UWT Locations - Groundwater) is Campus Wide
 - AOC 12 Not Shown (Other UWT Locations - Soil) is Campus Wide
 - Parcel Not Currently Owned by UW But Located Within Master Plan Boundary
 - Additional Monitoring Wells Installed and Groundwater Sampling Performed Within AOC in 2016
 - Groundwater Sampling Performed Within AOC During 2016



Area of Concern Location Map 2016 Field Investigation	
Agreed Order Remedial Investigation 2016 Data Report University of Washington - Tacoma Tacoma, Washington	
	Figure 2



Legend

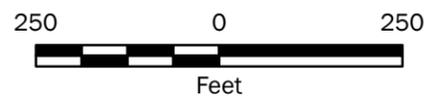
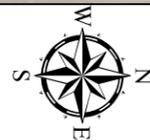
- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Shallow and Deep Aquifer Monitoring Well
- Unconfirmed Aquifer Monitoring Well
- Red Outline on Symbol Indicates Monitoring Well Was Installed in 2016
- Catch Basin Where Survey Was Completed
- Manhole Where Survey Was Completed
- Monitoring Well Planned But Not Installed
- Blue Outline Indicates Was Not Sampled in 2016 for Various Reasons as Described in Report
- Storm Drain Utility
- Sewer Utility
- UWT Master Plan Campus Boundary
- Potential Former Drainage Channel

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from City of Tacoma 2015

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

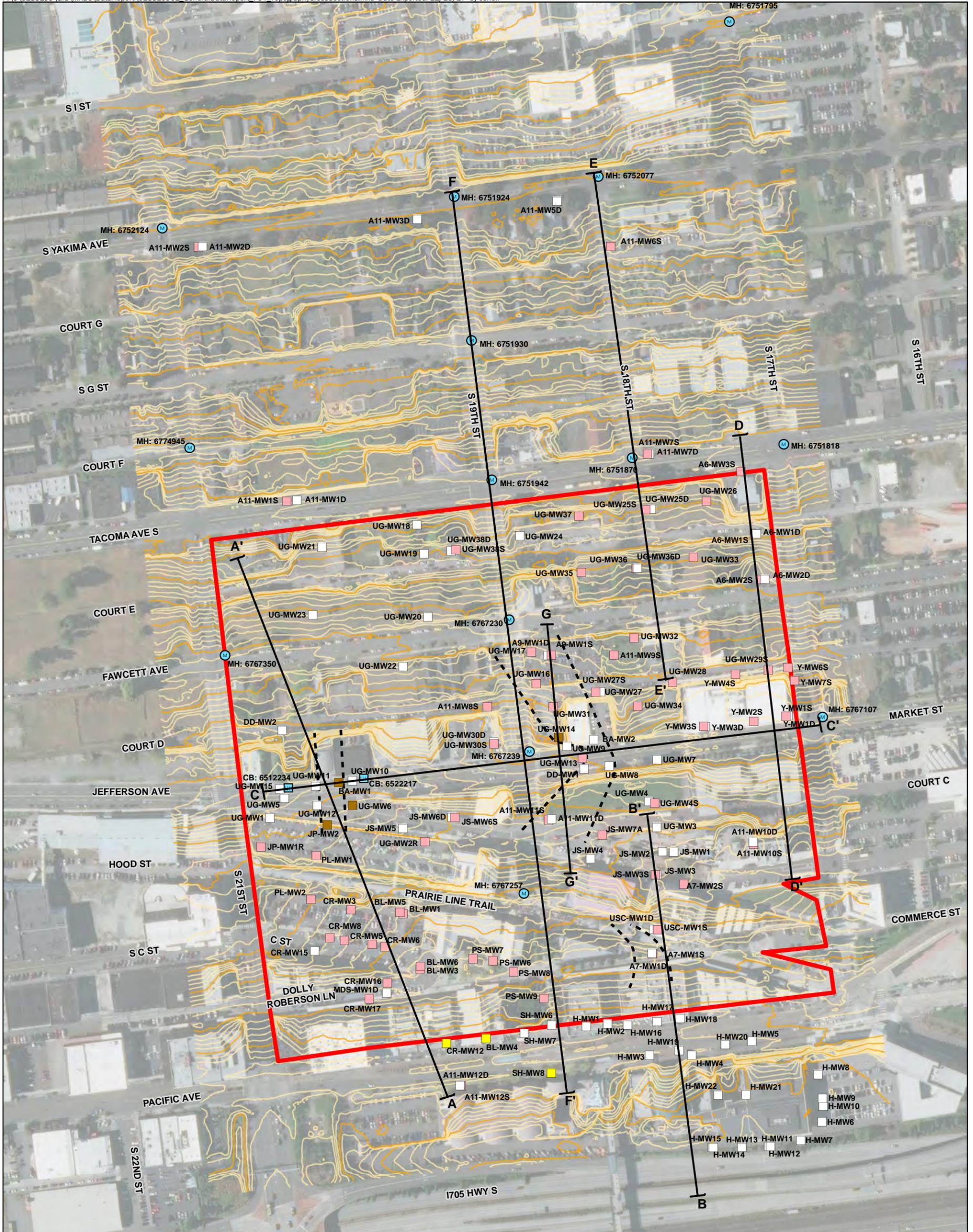


Monitoring Well Location Map

Agreed Order Remedial Investigation 2016 Data Report
University of Washington - Tacoma
Tacoma, Washington

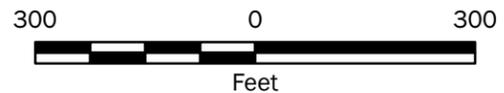
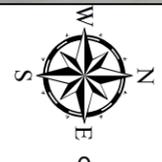


Figure 3



Legend

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Shallow and Deep Aquifer Monitoring Well
- Unconfirmed Aquifer Monitoring Well
- Catch Basin Where Survey Was Completed
- Manhole Where Survey Was Completed
- UWT Master Plan Campus Boundary
- Major Topographic Contours - 10 foot Interval
- Minor Topographic Contours - 2 foot Interval
- A — A' Cross Section Location
- Potential Former Drainage Channel



Cross Section Location Map

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University of Washington - Tacoma
Tacoma, Washington



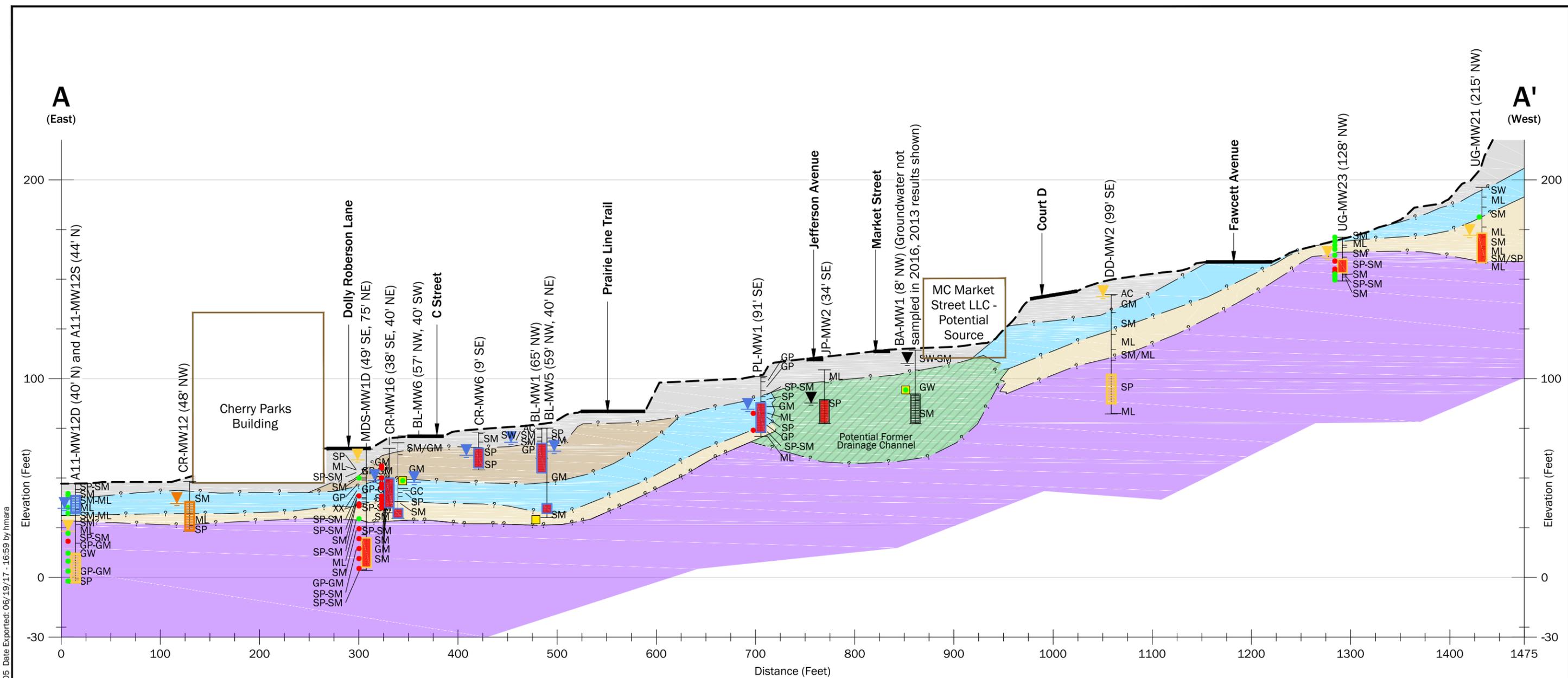
Figure 4

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet



Notes:

- Qvi = Ice-Contact Deposits
- TCE = Trichloroethene
- PCE = Tetrachloroethene
- RIGSL = Remedial investigation groundwater screening levels
- 1. The locations of all features shown are approximate.
- 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
- 4. Ground surface elevation based on LIDAR obtained from the Puget Sound LIDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
- 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
- 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

Legend

	Existing Ground Surface
	Ice-Contact Deposits (Qvi)
	Recessional Outwash
	Sand and Gravel (Alluvium or Qvi?)
	Silt Layer/Transition Zone
	Potential Former Drainage Channel
	Advance Outwash
	Below Ground Surface

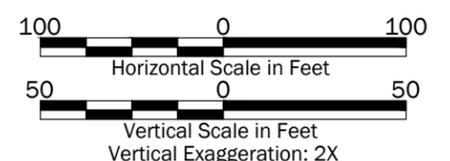
	Borehole Number (Offset Distance and Direction)
	Borehole Lithology
	Shallow Aquifer Water Level
	Deep Aquifer Water Level
	Shallow and Deep Aquifer Water Level
	Shallow Well Screen
	Deep Well Screen
	Shallow and Deep Well Screen
	Unconfirmed Well Screen
	Inferred Soil Contact Line

Groundwater Chemical Analytical Results

Red well screen indicates TCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- PCE detected in the analyzed soil sample. If not shown, then PCE was not detected



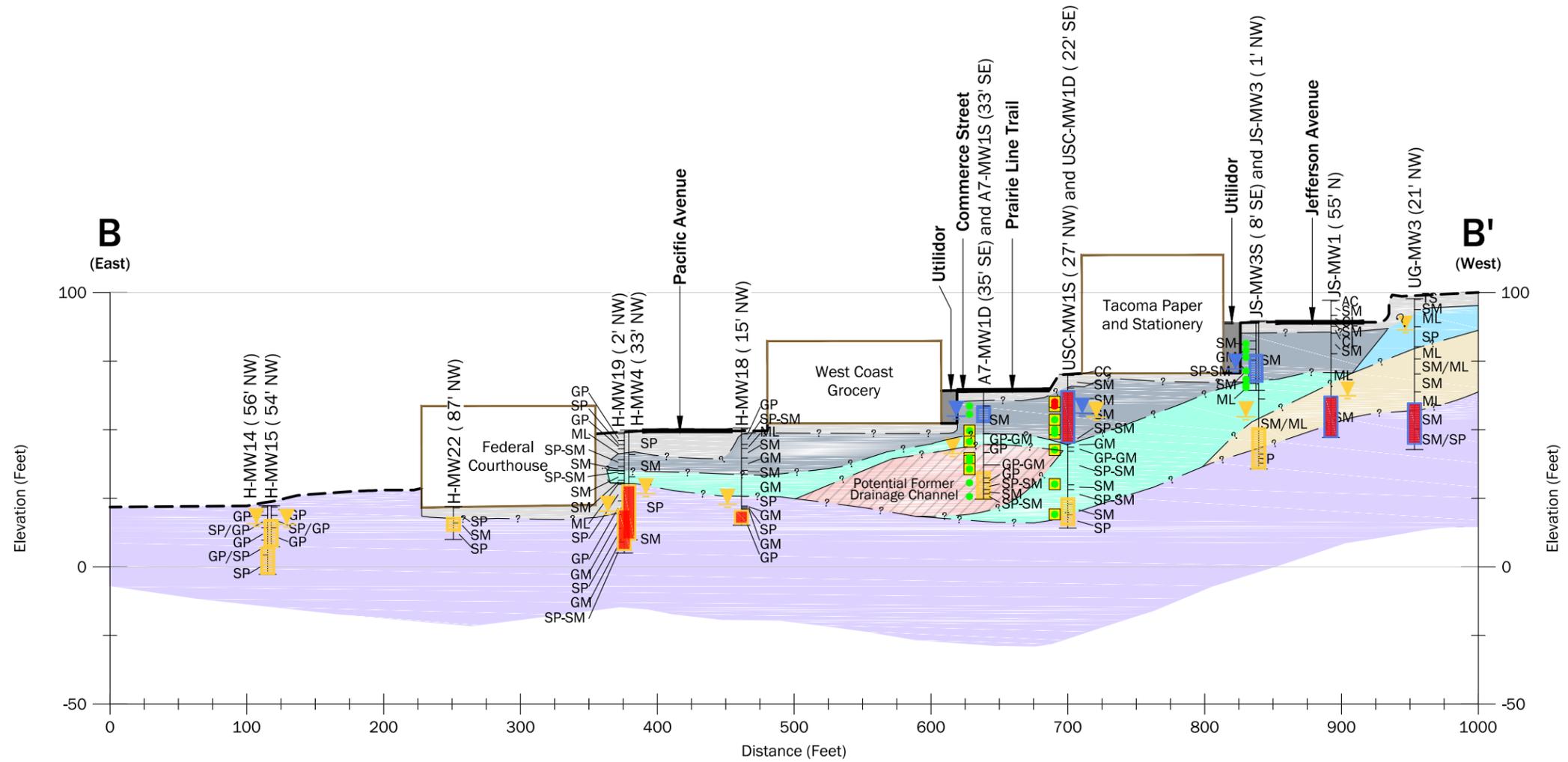
Cross Section A-A'

Agreed Order Remedial Investigation 2016 Data Report
University of Washington - Tacoma
Tacoma, Washington

Figure 5

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Notes:

- Qvi = Ice-Contact Deposits
- TCE = Trichloroethene
- PCE = Tetrachloroethene
- RIGSL = Remedial investigation groundwater screening levels
- 1. The locations of all features shown are approximate.
- 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
- 4. Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
- 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
- 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

Legend

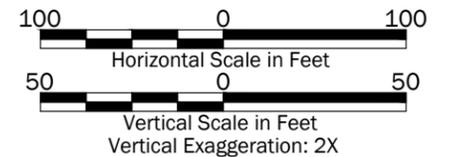
- Existing Ground Surface
- █ Fill
- █ Ice-Contact Deposits (Qvi)
- █ Sand and Gravel (Qvi?)
- █ Silty Sand (Shallow Aquifer Water Bearing Unit)(Qvi)
- █ Silty Gravel (Semi-Confining)(Qvi)
- █ Silt Layer/Transition Zone
- █ Potential Former Drainage Channel
- █ Advance Outwash
- bgs Below Ground Surface
- H-MW18 (15' NW) Borehole Number (Offset Distance and Direction)
- SM Borehole Lithology
- ▽ Shallow Aquifer Water Level
- ▽ Deep Aquifer Water Level
- Shallow Well Screen
- Deep Well Screen
- ? Inferred Soil Contact Line

Groundwater Chemical Analytical Results

- █ Red well screen indicates PCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- PCE detected in the analyzed soil sample. If not shown, then PCE was not detected

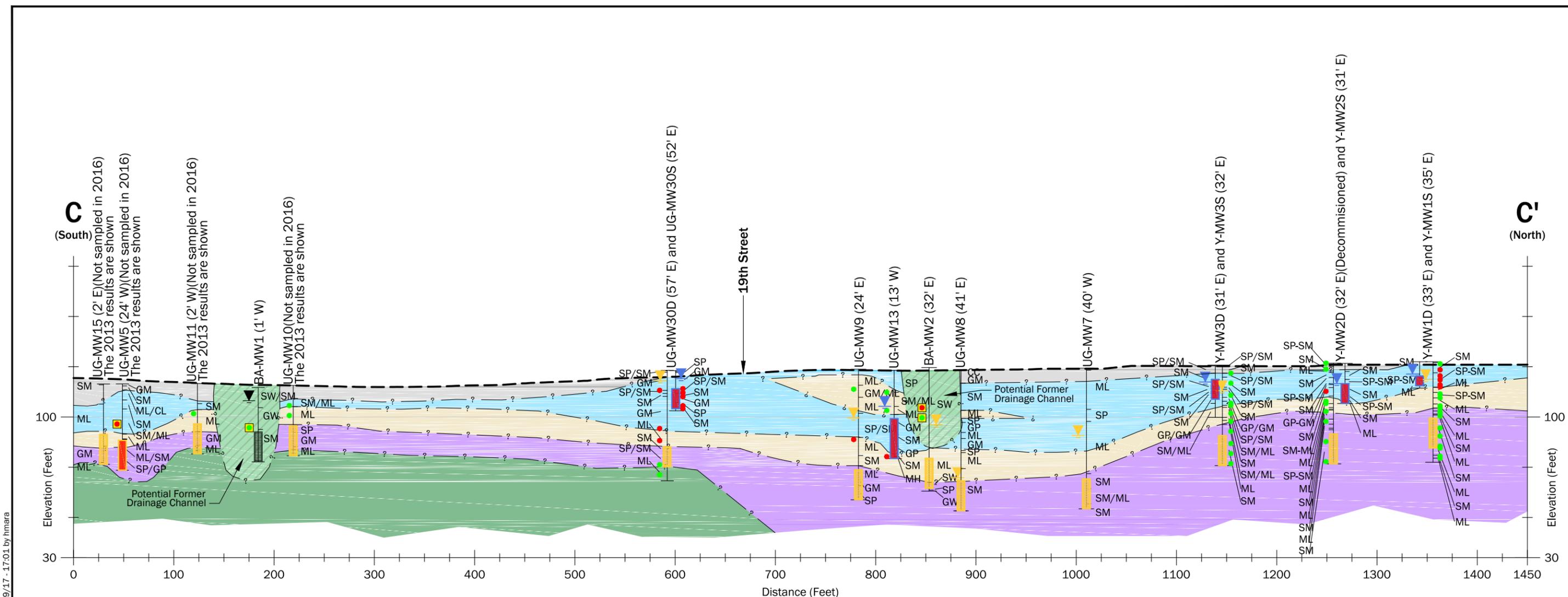


Cross Section B-B'

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University of Washington - Tacoma
Tacoma, Washington

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Figure 6



P:\0183109\CAD\01\Data Report\018310900_F05-F07_Sections AA-CC.dwg TAB:F07 Date Exported: 06/19/17 - 17:01 by hmara

- Notes:**
- Qvi = Ice-Contact Deposits
 - TCE = Trichloroethene
 - PCE = Tetrachloroethene
 - RIGSL = Remedial investigation groundwater screening levels
 - 1. The locations of all features shown are approximate.
 - 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 - 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
 - 4. Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
 - 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
 - 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

Legend

- Existing Ground Surface
- █ Fill
- █ Ice-Contact Deposits (Qvi)
- █ Sand and Gravel (Alluvium or Qvi?)
- █ Silt Layer/Transition Zone
- █ Potential Former Drainage Channel
- █ Advance Outwash
- █ Lawton Clay
- bgs Below Ground Surface

Borehole Legend

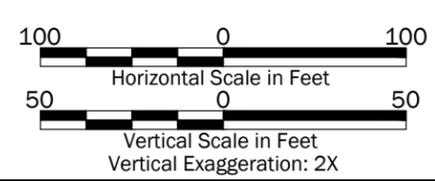
- UG-MW7 (40' W)
- SM Borehole Lithology
- ▽ Shallow Aquifer Water Level
- ▽ Deep Aquifer Water Level
- █ Shallow Well Screen
- █ Deep Well Screen
- ? Inferred Soil Contact Line

Groundwater Chemical Analytical Results

- █ Red well screen indicates TCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- PCE detected in the analyzed soil sample. If not shown, then PCE was not detected

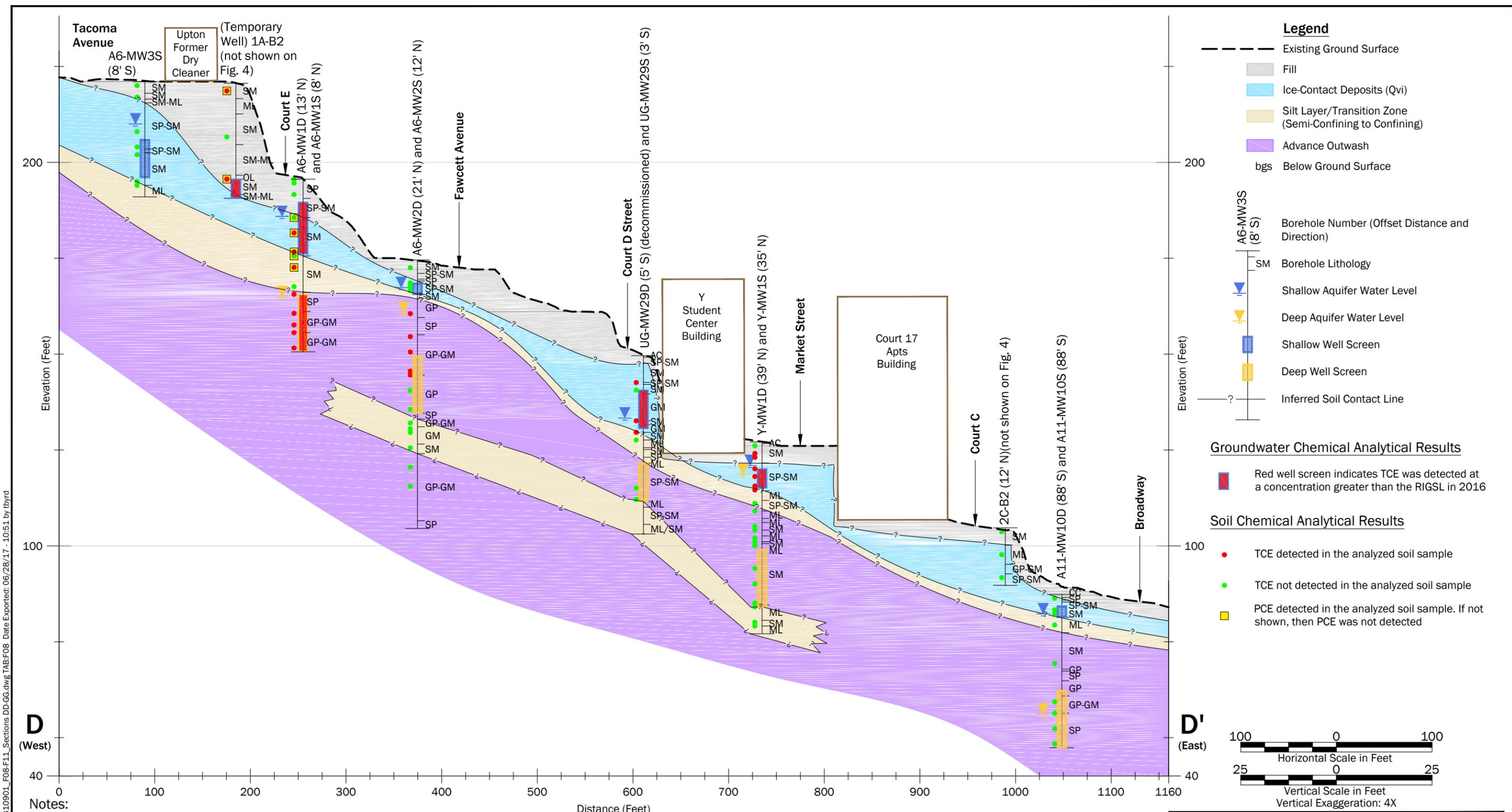


Cross Section C-C'

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Tacoma, Washington

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Figure 7



Notes:
 Qvi = Ice-Contact Deposits
 TCE = Trichloroethene
 PCE = Tetrachloroethene
 RIGSL = Remedial investigation groundwater screening levels
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
 4. Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

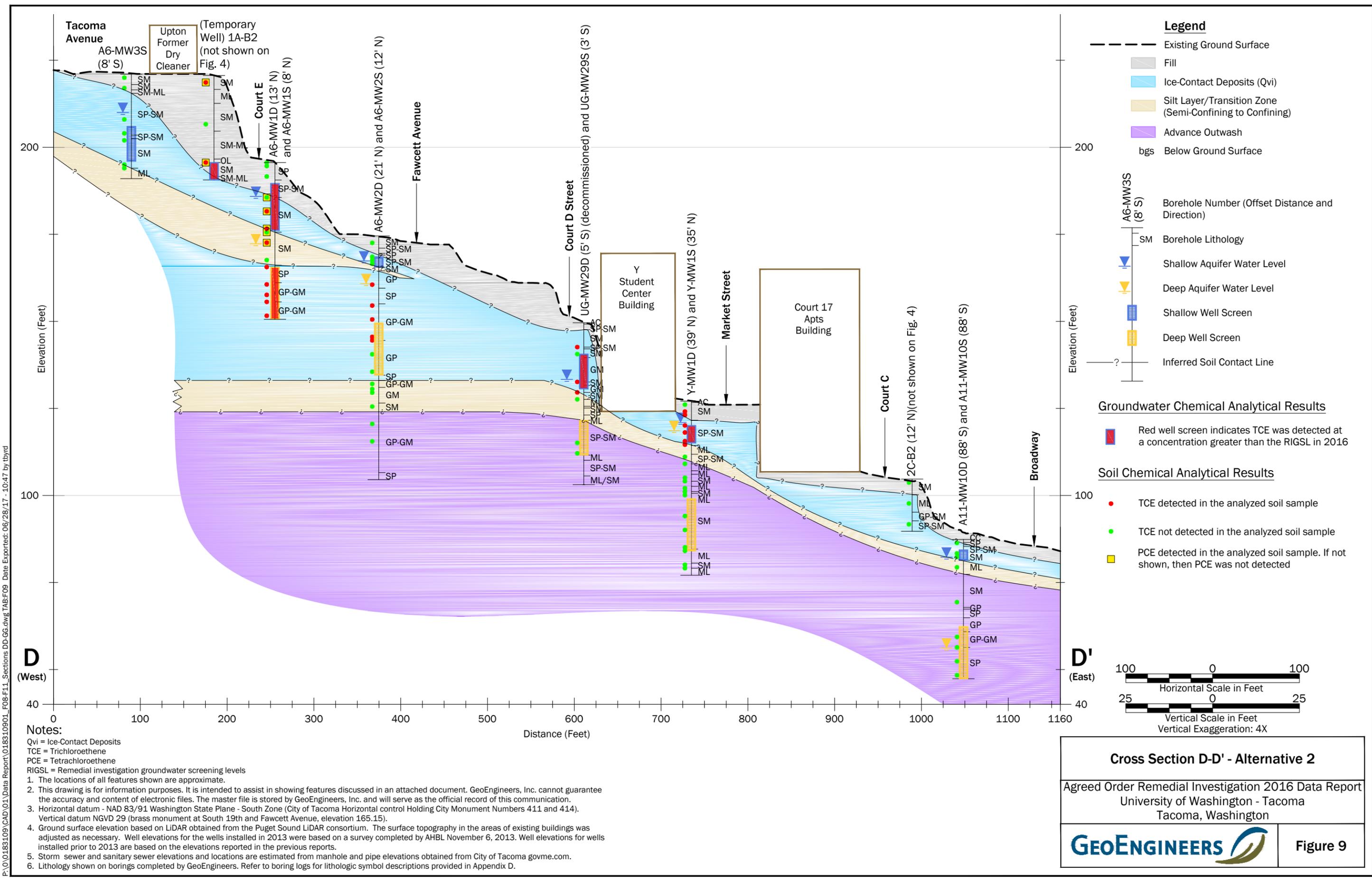
Cross Section D-D' - Alternative 1

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 Tacoma, Washington



Figure 8

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- Legend**
- Existing Ground Surface
 - █ Fill
 - █ Ice-Contact Deposits (Qvi)
 - █ Silt Layer/Transition Zone (Semi-Confining to Confining)
 - █ Advance Outwash
 - bgs Below Ground Surface
- Borehole Number (Offset Distance and Direction)**
- SM Borehole Lithology
 - ▽ Shallow Aquifer Water Level
 - ▽ Deep Aquifer Water Level
 - █ Shallow Well Screen
 - █ Deep Well Screen
 - Inferred Soil Contact Line

Groundwater Chemical Analytical Results

Red well screen indicates TCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- PCE detected in the analyzed soil sample. If not shown, then PCE was not detected

Notes:

Qvi = Ice-Contact Deposits
TCE = Trichloroethene
PCE = Tetrachloroethene
RIGSL = Remedial investigation groundwater screening levels

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
- Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
- Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
- Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

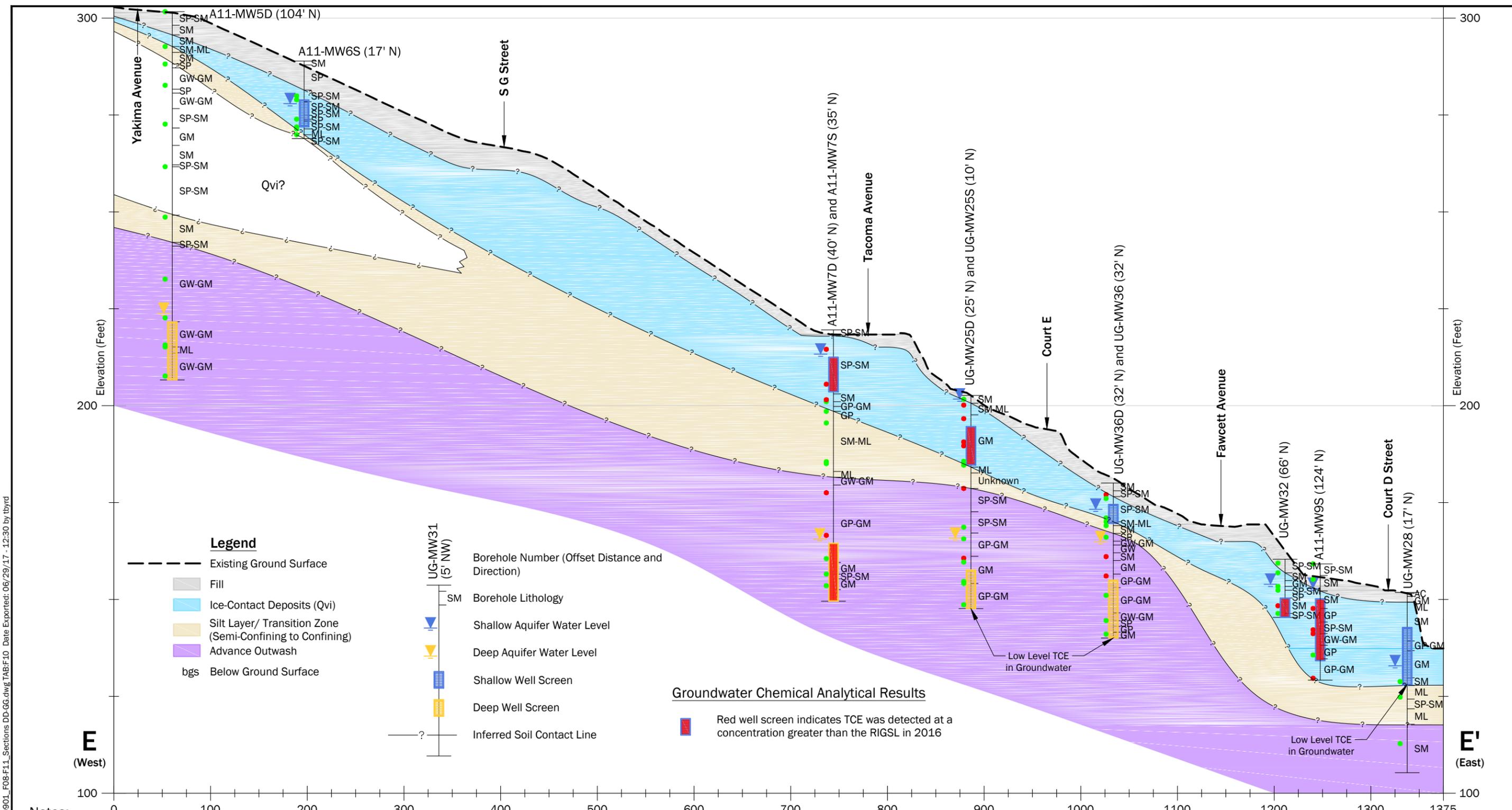
Cross Section D-D' - Alternative 2

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Tacoma, Washington

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Figure 9

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Legend

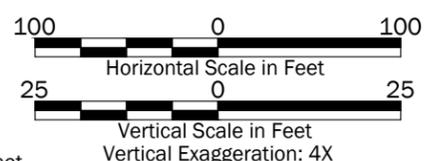
- Existing Ground Surface
- █ Fill
- █ Ice-Contact Deposits (Qvi)
- █ Silt Layer/ Transition Zone (Semi-Confining to Confining)
- █ Advance Outwash
- bgs Below Ground Surface
- UG-MW/31 (5' NW) SM Borehole Number (Offset Distance and Direction)
- SM Borehole Lithology
- ▽ Shallow Aquifer Water Level
- ▽ Deep Aquifer Water Level
- Shallow Well Screen
- Deep Well Screen
- Inferred Soil Contact Line

Groundwater Chemical Analytical Results

- █ Red well screen indicates TCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- PCE detected in the analyzed soil sample. If not shown, then PCE was not detected



Notes:
 Qvi = Ice-Contact Deposits
 TCE = Trichloroethene
 PCE = Tetrachloroethene
 RIGSL = Remedial investigation groundwater screening levels
 1. The locations of all features shown are approximate.
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
 4. Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

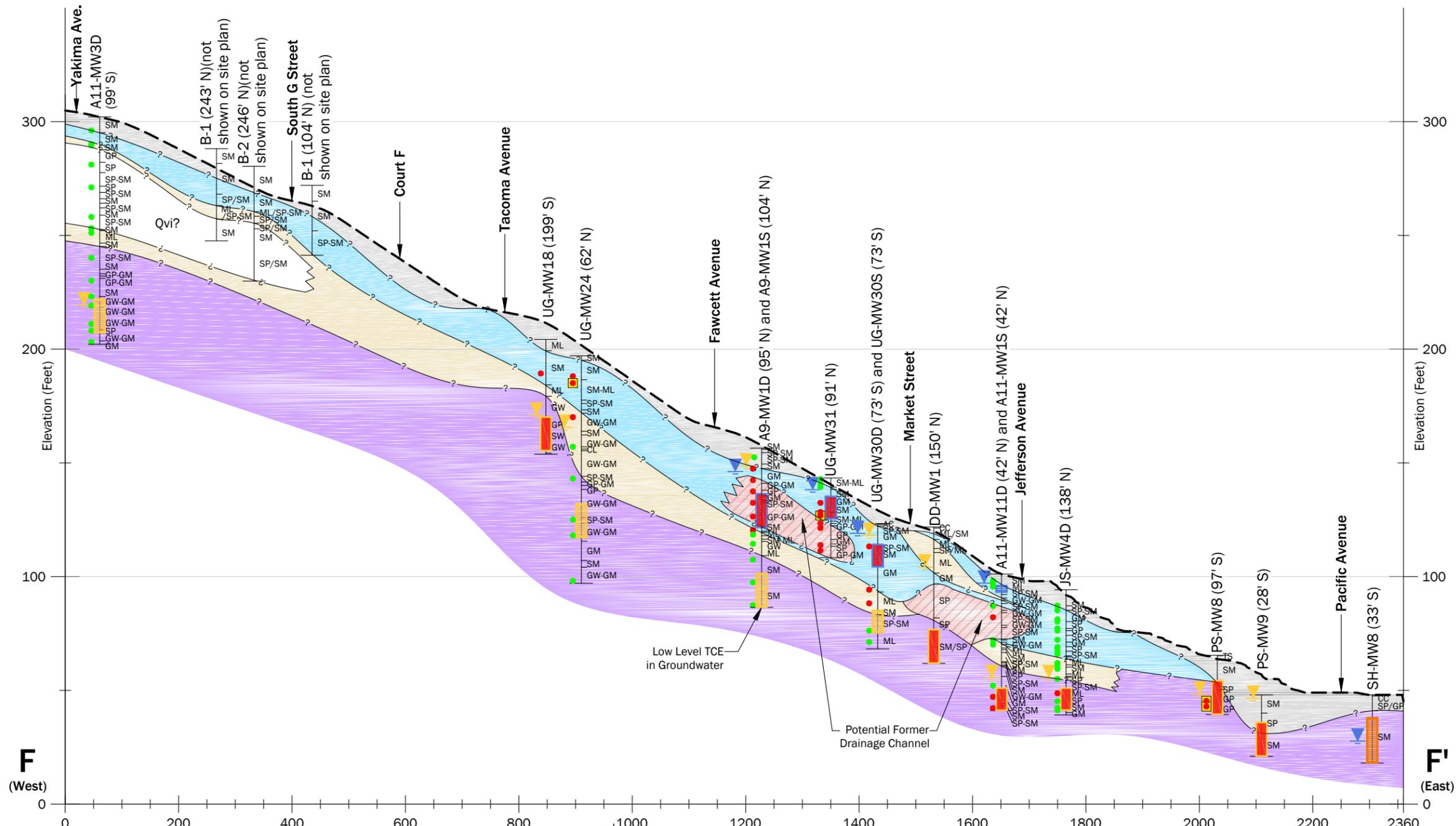
Cross Section E-E'

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 Tacoma, Washington

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Figure 10

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Notes:

- Qvi = Ice-Contact Deposits
- TCE = Trichloroethene
- PCE = Tetrachloroethene
- RIGSL = Remedial investigation groundwater screening levels
- 1. The locations of all features shown are approximate.
- 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal Control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
- 4. Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
- 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
- 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

Legend

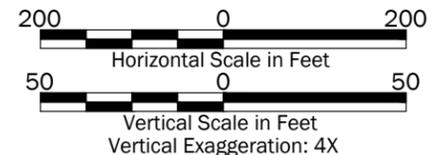
- Borehole Number (Offset Distance and Direction)
- Borehole Lithology
- Shallow Aquifer Water Level
- Deep Aquifer Water Level
- Shallow Well Screen
- Deep Well Screen
- Shallow and Deep Well Screen
- Inferred Soil Contact Line
- Fill
- Ice-Contact Deposits (Qvi)
- Sand and Gravel (Qvi)
- Silt Layer/Transition Zone (Semi-Confining to Confining)
- Potential Former Drainage Channel
- Advance Outwash
- bgs Below Ground Surface

Groundwater Chemical Analytical Results

- Red well screen indicates TCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- PCE detected in the analyzed soil sample. If not shown, then PCE was not detected

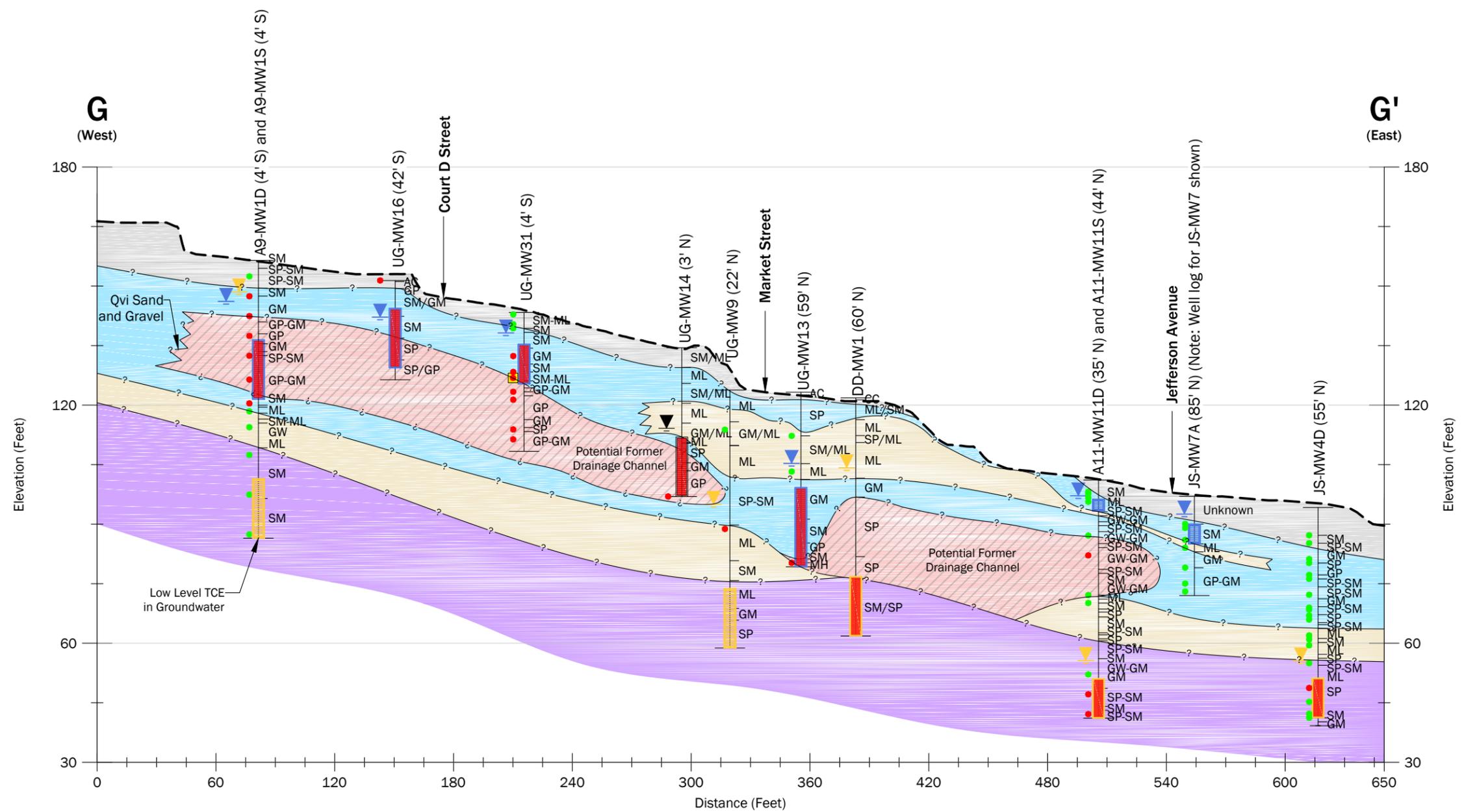


Cross Section F-F'

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Tacoma, Washington

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Figure 11



Notes:

- Qvi = Ice-Contact Deposits
- TCE = Trichloroethene
- PCE = Tetrachloroethene
- RIGSL = Remedial investigation groundwater screening levels
- 1. The locations of all features shown are approximate.
- 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- 3. Horizontal datum - NAD 83/91 Washington State Plane - South Zone (City of Tacoma Horizontal Control Holding City Monument Numbers 411 and 414). Vertical datum NGVD 29 (brass monument at South 19th and Fawcett Avenue, elevation 165.15).
- 4. Ground surface elevation based on LiDAR obtained from the Puget Sound LiDAR consortium. The surface topography in the areas of existing buildings was adjusted as necessary. Well elevations for the wells installed in 2013 were based on a survey completed by AHBL November 6, 2013. Well elevations for wells installed prior to 2013 are based on the elevations reported in the previous reports.
- 5. Storm sewer and sanitary sewer elevations and locations are estimated from manhole and pipe elevations obtained from City of Tacoma govme.com.
- 6. Lithology shown on borings completed by GeoEngineers. Refer to boring logs for lithologic symbol descriptions provided in Appendix D.

Legend

- Existing Ground Surface
- █ Fill
- █ Ice-Contact Deposits (Qvi)
- █ Sand and Gravel (Qvi)
- █ Silt Layer/Transition Zone (Semi-Confining to Confining)
- █ Potential Former Drainage Channel
- █ Advance Outwash
- bgs Below Ground Surface

Borehole Legend

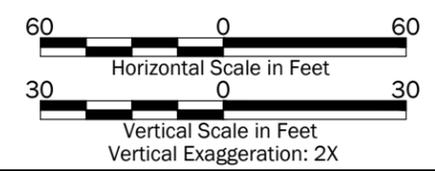
- UG-MW14 (3' N)
- SM Borehole Lithology
- ▽ Shallow Aquifer Water Level
- ▽ Deep Aquifer Water Level
- █ Shallow Well Screen
- █ Deep Well Screen
- Inferred Soil Contact Line

Groundwater Chemical Analytical Results

- █ Red well screen indicates TCE was detected at a concentration greater than the RIGSL in 2016

Soil Chemical Analytical Results

- TCE detected in the analyzed soil sample
- TCE not detected in the analyzed soil sample
- █ PCE detected in the analyzed soil sample. If not shown, then PCE was not detected



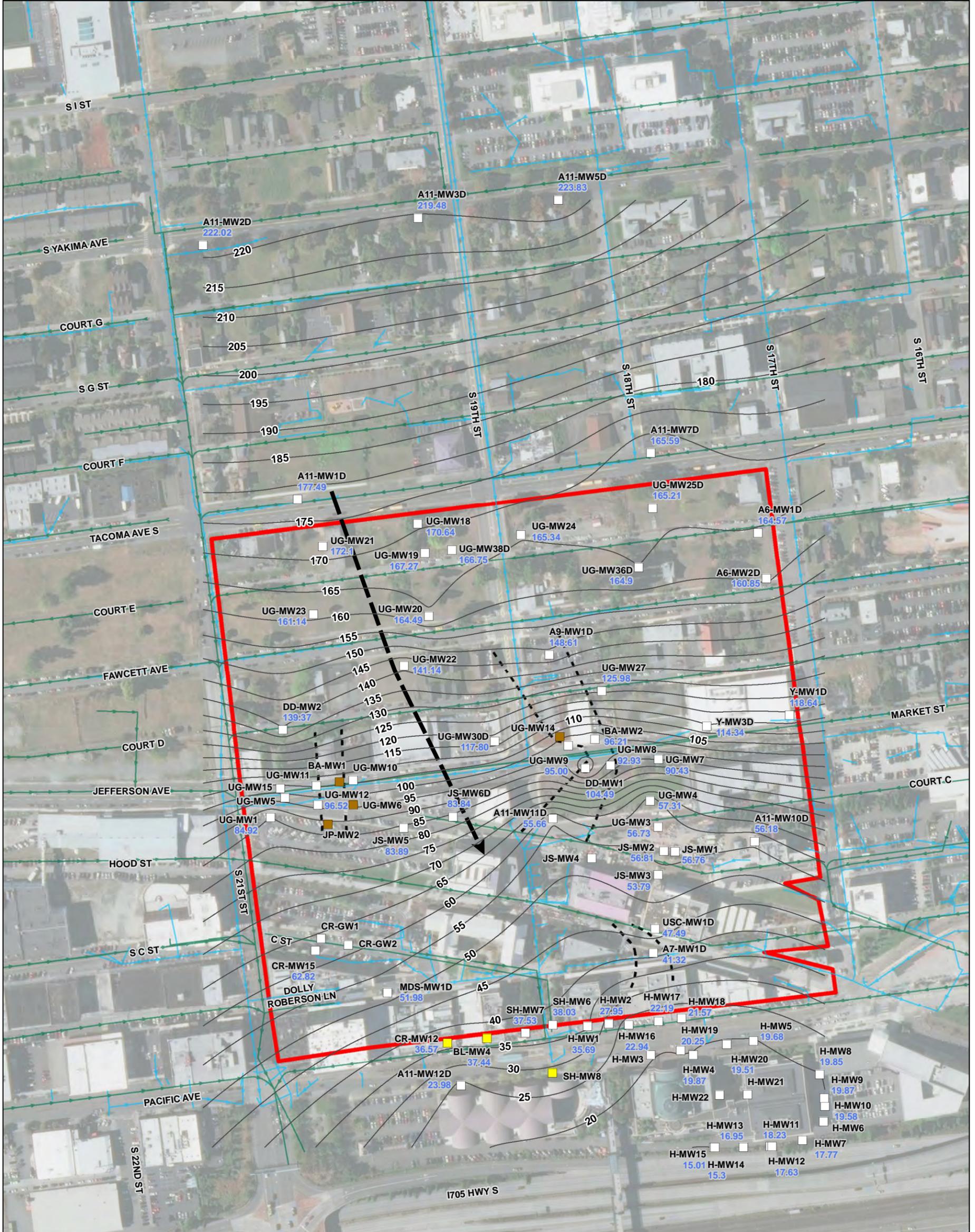
Cross Section G-G'

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Tacoma, Washington

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Figure 12

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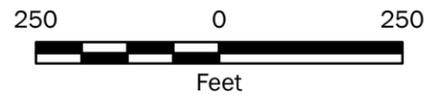


Legend

- Deep Aquifer Monitoring Well Location Identification and Approximate Water Level Elevation (feet) on December 27, 2016
- Shallow and Deep Aquifer Monitoring Well Location Identification and Approximate Water Level Elevation (feet) on December 27, 2016
- Unconfirmed Aquifer Monitoring Well Location Identification and Approximate Water Level Elevation (feet) on December 27, 2016 (Not used in Contouring)
- Storm Drain Utility
- Sewer Utility
- Deep Aquifer Groundwater Level Elevation Contour (5-foot interval)
- UWT Master Plan Campus Boundary
- Generalized Groundwater Flow Direction
- - - Potential Former Drainage Channel

Notes:

1. Groundwater measurements were collected on November 8, 2013
 2. Water level contours were created in Surfer 8 (Golden Software) using the kriging interpolation method.
 3. The locations of all features shown are approximate.
 4. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
- Data Source: Aerial from ESRI 2016
 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet



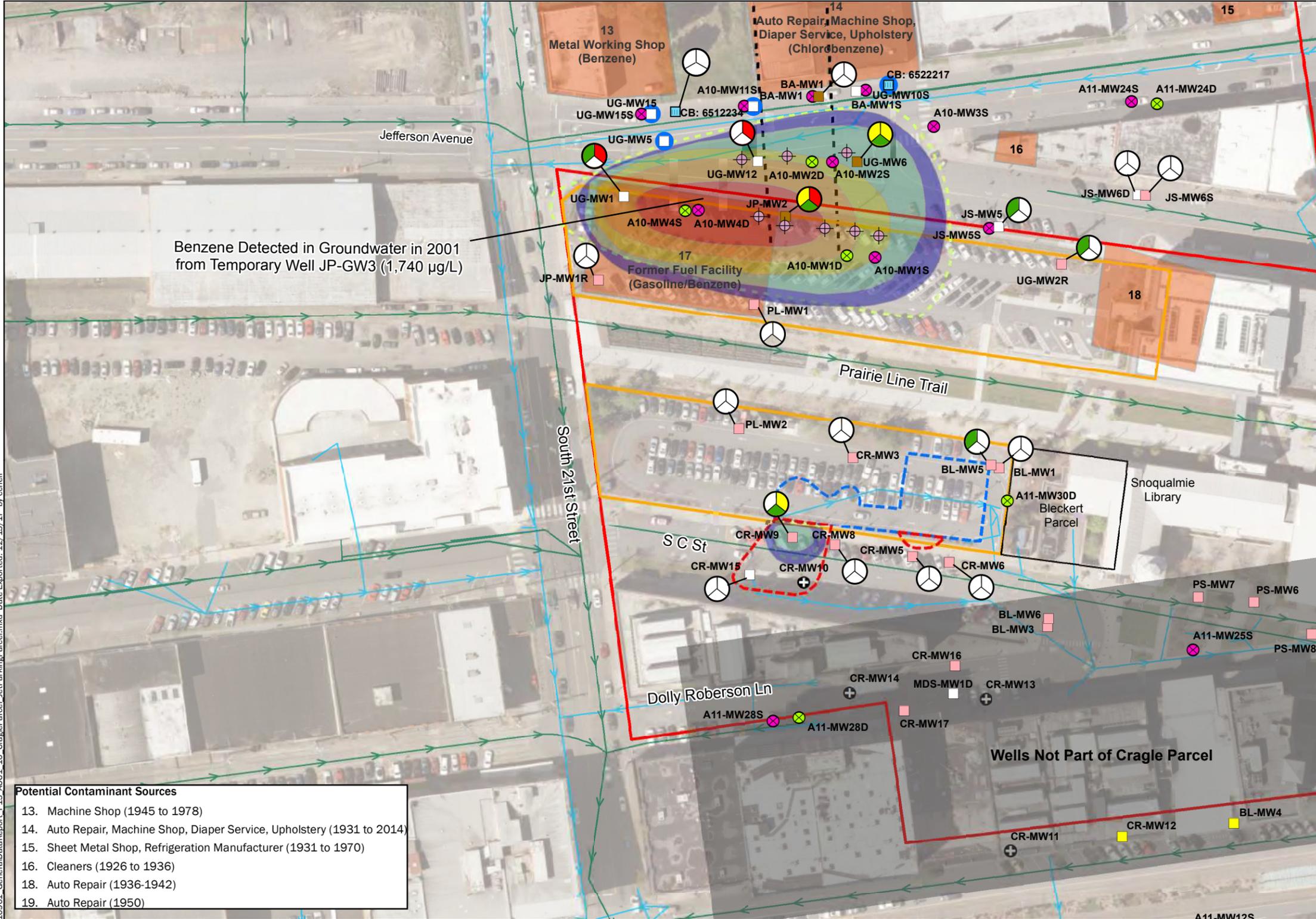
Groundwater Elevation Contours - Deep Aquifer

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 Tacoma, Washington



Figure 14

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Benzene Detected in Groundwater in 2001 from Temporary Well JP-GW3 (1,740 µg/L)

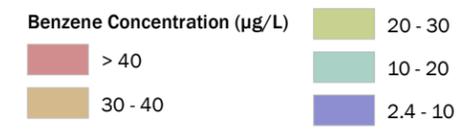
- Potential Contaminant Sources**
13. Machine Shop (1945 to 1978)
 14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
 15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
 16. Cleaners (1926 to 1936)
 18. Auto Repair (1936-1942)
 19. Auto Repair (1950)

Notes:

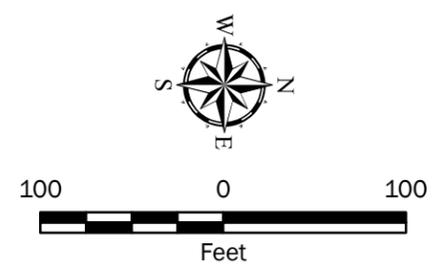
1. Wells shown were sampled in 2016 and analyzed for VOCs. If pie chart not shown, the groundwater collected from the well was not analyzed for the chemicals.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Data Source: Aerial from City of Tacoma 2015 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
 AOC = Area of Concern
 mg/kg = milligram per kilogram
 µg/L = microgram per Liter
 COC = Chemical of Concern
 bgs = Below Ground Surface
 µg/L = microgram per Liter
 bgs = below grade surface

RIGSL:
 Benzene = 2.4 µg/L
 Chlorobenzene = 100 µg/L
 Gasoline = 800 µg/L



Wells shown were sampled in 2016 and analyzed for VOCs, if pie chart not shown the groundwater collected from the well was not analyzed for the chemicals or not within AOC1 and 10.



Legend

- Existing UWT Campus Boundary
- AOC 1 - Cragle Parcel Boundary and AOC 10 - Jet Parking Parcel
- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Shallow and Deep Aquifer Monitoring Well
- Unconfirmed Aquifer Monitoring Well
- Red Outline on Symbol Indicates Monitoring Well was Installed During 2016
- Well Not Sampled in 2016
- Potential Former Drainage Channel
- Approximate Lateral Extent of Gasoline-Contaminated Soil
- Approximate Lateral Extent of Benzene-Contaminated Groundwater in 2013
- Historical Limits of UST/Soil Remedial Excavation
- Decommissioned Well
- Potential Source Property (Contaminant of Concern)
- Storm Drain Utility
- Sewer Utility

Color Coding for Groundwater Result Pie Charts

Chlorobenzene Benzene

Gasoline-Range Petroleum Hydrocarbons

- COC Not Detected
- COC Detected at a Concentration Less than the RIGSL
- COC Detected at a Concentration Greater Than the RIGSL But Less Than 10 Times the RIGSL
- COC Detected at a Concentration 10 Times the RIGSL

Per 2016 RI Work Plan Future Investigation

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Sonic Core Boring
- Stormwater Catch Basin to be Sampled

AOC 1 - Cragle Parcel and AOC 10 - Jet Parking Parcel

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 Tacoma, Washington

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Figure 15

Legend

- UWT Master Plan Campus Boundary
- Existing Shallow Aquifer Monitoring Well
- Existing Deep Aquifer Monitoring Well
- Red Outline on Symbol Indicates Monitoring Well was Installed During 2016
- Well Not Sampled in 2016
- Approximate Lateral Extent of PCE Groundwater Plume in Shallow Aquifer
- Approximate Lateral Extent of TCE in Deep Aquifer
- Approximate Lateral Extent of TCE in Shallow Aquifer
- Storm Drain Utility
- Sewer Utility
- Building Footprint When Site Operated by Dry Cleaner
- 1970's Expansion
- Potential Source Property

Color Coding for Groundwater Result Pie Charts

PCE TCE

- COC Not Detected
- COC Detected at a Concentration Less than the RIGSL
- COC Detected at a Concentration Greater Than the RIGSL But Less Than 10 Times the RIGSL
- COC Detected at a Concentration 10 Times the RIGSL

Per 2016 RI Work Plan Future Investigation

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well

RIGSL (Groundwater):

PCE = 5 µg/L
 TCE = 1.6 µg/L
 cis-1,2 DCE = 16 µg/L
 Vinyl Chloride = 0.29 µg/L

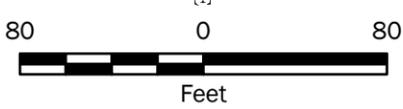
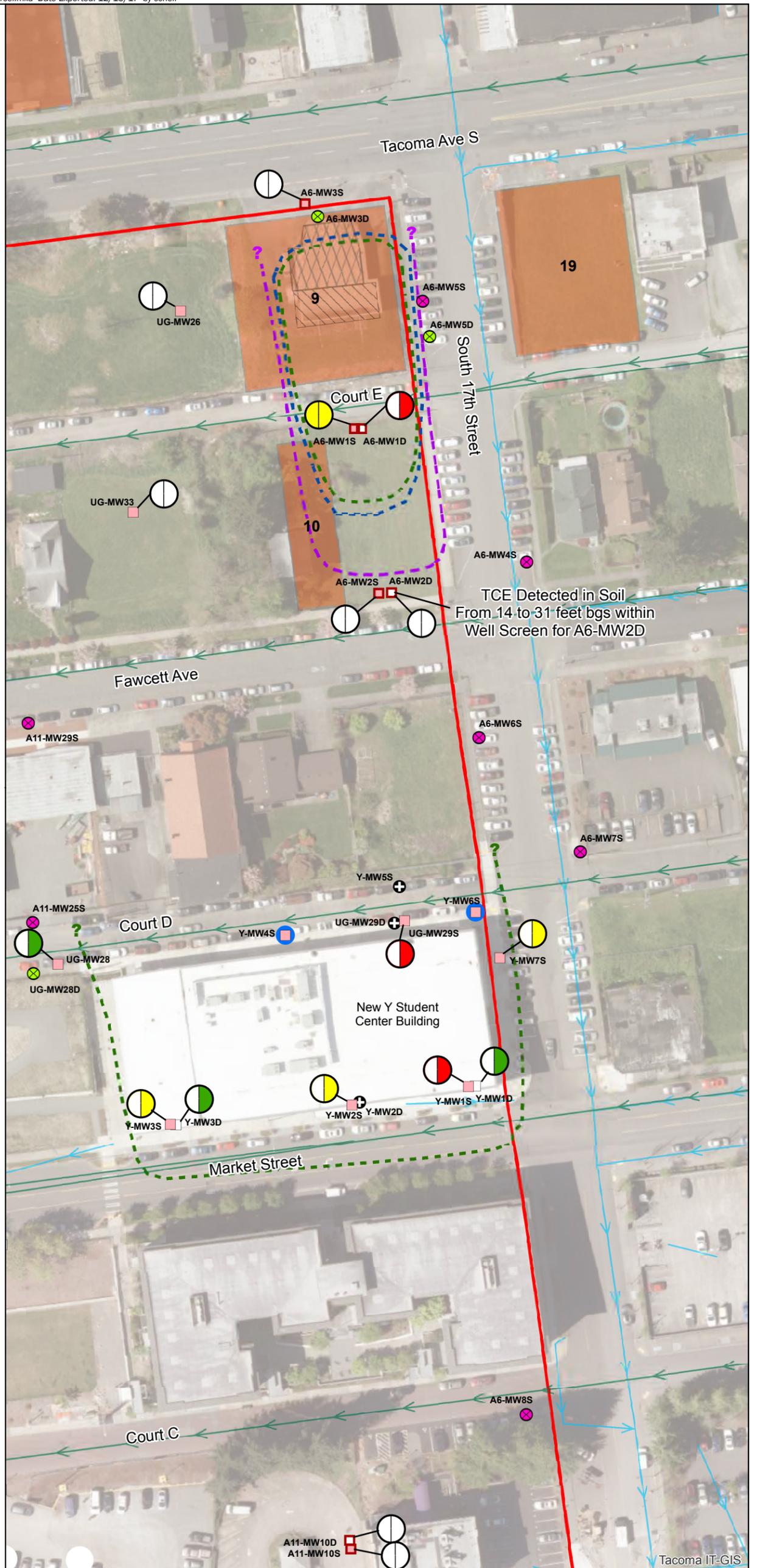
RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
 bgs = Below Ground Surface
 TCE = trichloroethene
 PCE = tetrachloroethene
 AOC = Area of Concern
 µg/L = microgram per Liter
 COC = Chemical of Concern

Notes:

1. Wells shown were sampled in 2016 and analyzed for VOCs. If pie chart not shown, the groundwater collected from the well was not analyzed for the chemicals.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

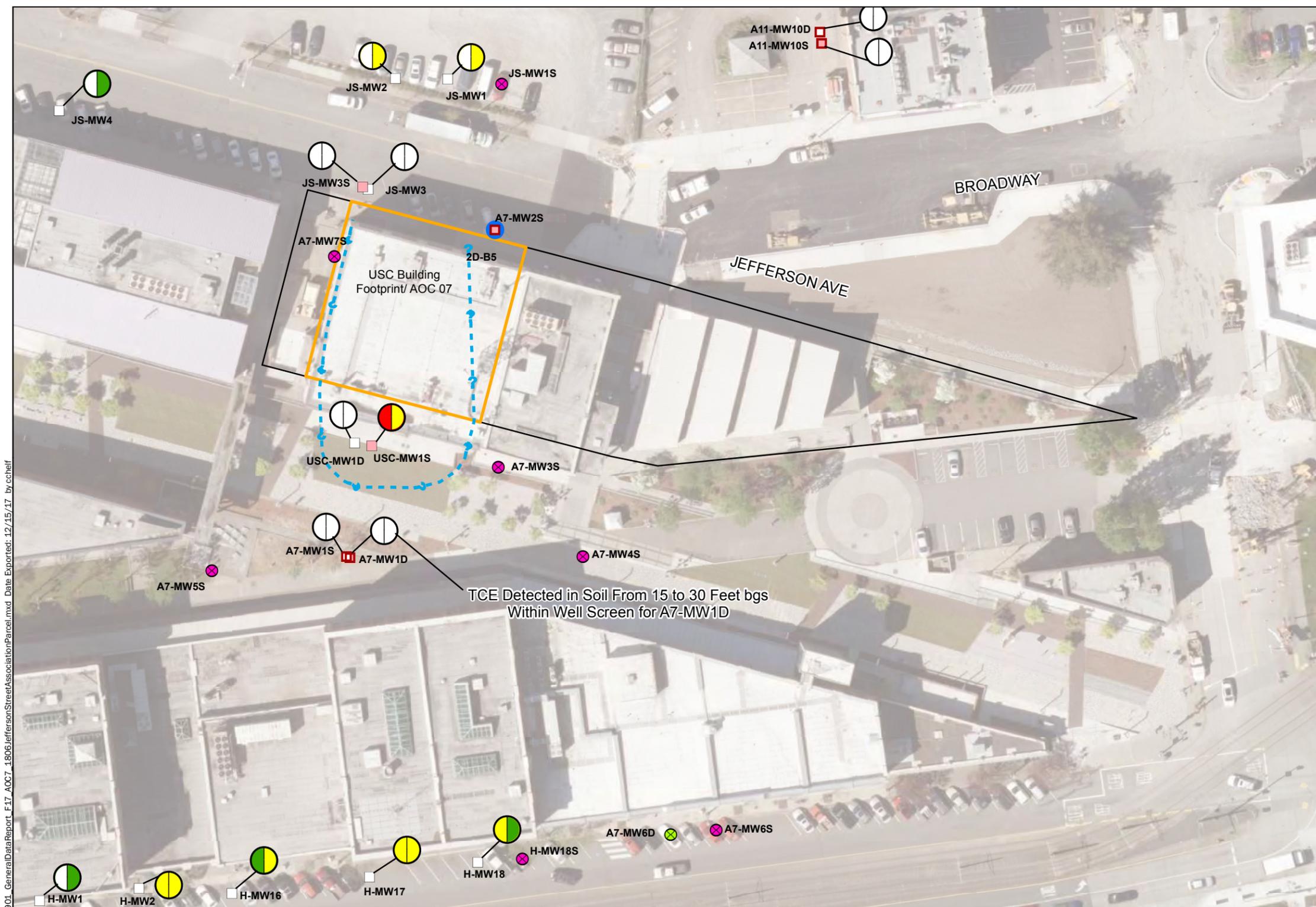
Data Source: Aerial from City of Tacoma 2015

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet



AOC 6 - Upton Parcel	
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	Figure 16

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Legend

- AOC 7 Boundary
- 1806 Jefferson Street Association Parcel Boundary
- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Red Outline on Symbol Indicates Monitoring Well was Installed During 2016
- Sample Not Collected in 2016
- Approximate Lateral Extent of PCE in Shallow Aquifer

Color Coding for Groundwater Result Pie Charts

PCE TCE

- COC Not Detected
- COC Detected at a Concentration Less than the RIGSL
- COC Detected at a Concentration Greater Than the RIGSL But Less Than 10 Times the RIGSL
- COC Detected at a Concentration 10 Times the RIGSL

Per 2016 RI Work Plan Future Investigation

- ⊗ Shallow Aquifer Monitoring Well
- ⊗ Deep Aquifer Monitoring Well

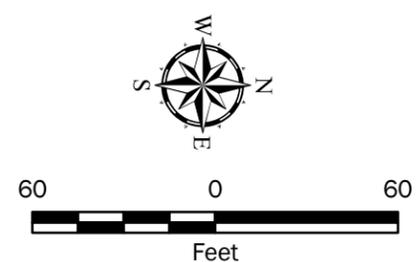
RIGSL:
PCE = 5 µg/L
TCE = 1.6 µg/L

Data Shown was collected in December 2016 with the exception of H-MW# wells which were collected in September 2016

Notes:

1. Wells shown were sampled in 2016 and analyzed for VOCs. If pie chart not shown, the groundwater collected from the well was not analyzed for the chemicals.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Data Source: Aerial from City of Tacoma 2015 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

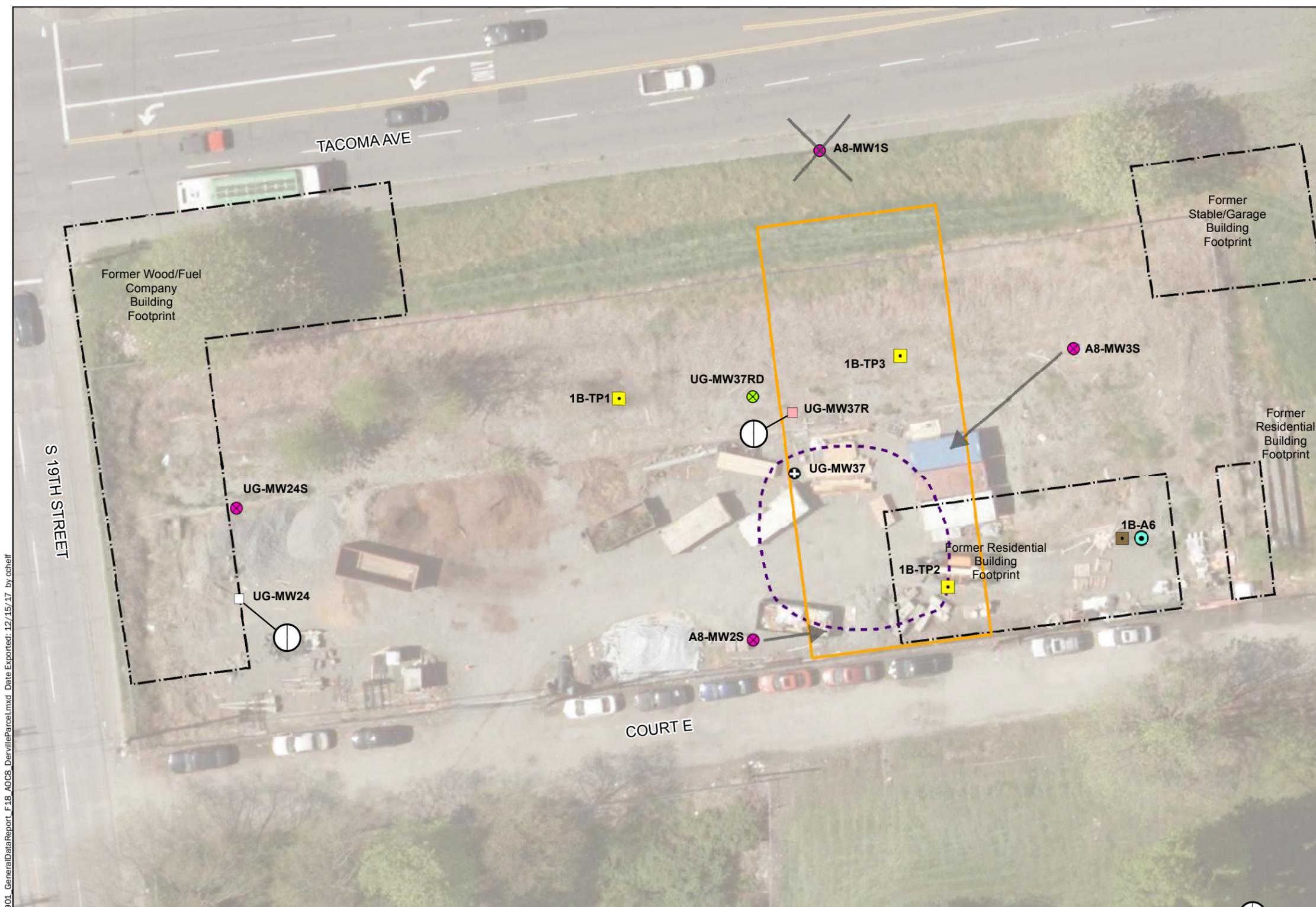
RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
AOC = Area of Concern
µg/L = microgram per Liter
COC = Chemical of Concern
bgs = Below Ground Surface
ND = Not Detected
TCE = trichloroethene
PCE = tetrachloroethene
TPS = Tacoma Paper and Stationery



AOC 7 - 1806 Jefferson Street Association

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Tacoma, Washington

Figure 17



Legend

- AOC 8 - Derville Parcel Boundary
- Existing Shallow Aquifer Monitoring Well
- Existing Deep Aquifer Monitoring Well
- Test Pit GeoEngineers, 2013
- Magnetic Anomaly Identified in Geophysical Survey Where Test Pit Was Not Completed During The 2013 Investigation (Potential UST)
- Well Decommissioned Due to Damage Observed in the Well
- Approximate Lateral Extent of Lube Oil-Range Petroleum Hydrocarbon-Contaminated Groundwater Plume in Shallow Aquifer
- Historic Building Footprints

Color Coding for Groundwater Result Pie Charts

Diesel-Range Petroleum Hydrocarbons		Lube Oil-Range Petroleum Hydrocarbons
-------------------------------------	--	---------------------------------------

- COC Not Detected
- COC Detected at a Concentration Less than the RIGSL
- COC Detected at a Concentration Greater Than the RIGSL But Less Than 10 Times the RIGSL
- COC Detected at a Concentration 10 Times the RIGSL

Per 2016 RI Work Plan Future Investigation

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Test Pit

Potential Changes to RI Work Plan

- Move Location
- Remove Well

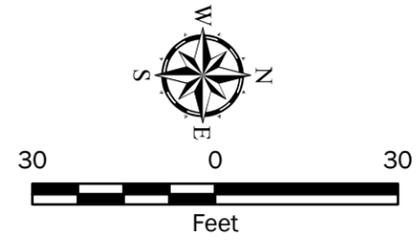
Notes:

- Wells shown were sampled in 2016 and analyzed for VOCs. If pie chart not shown, the groundwater collected from the well was not analyzed for the chemicals.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from City of Tacoma 2015
 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
 AOC = Area of Concern
 mg/L = milligram per Liter
 COC = Chemical of Concern
 bgs = Below Ground Surface
 UST = Underground Storage Tank

RIGSL:
 Lube Oil-Range Petroleum Hydrocarbons = 0.5 mg/L



AOC 8 - Derville Parcel

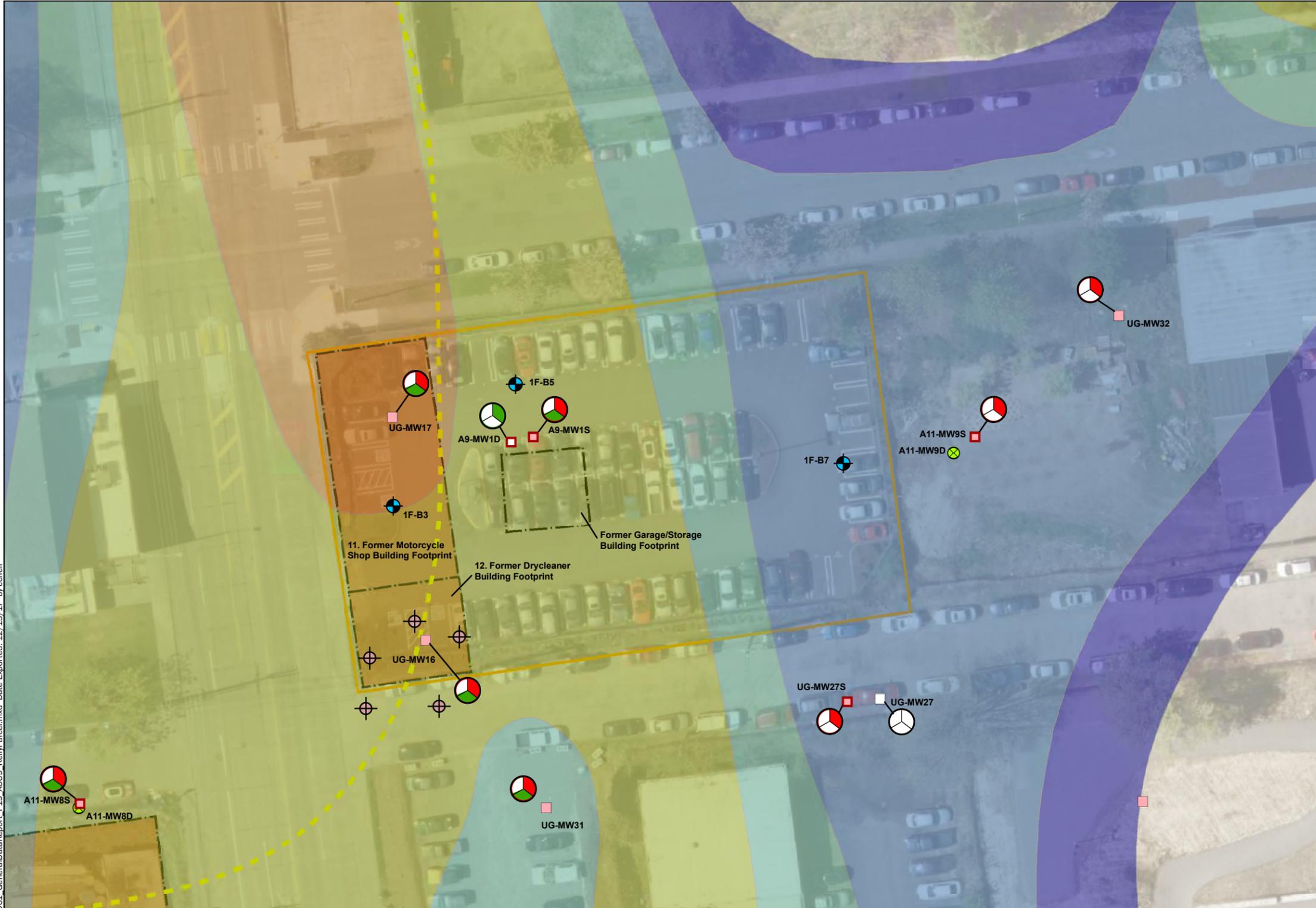
Agreed Order Remedial Investigation 2016 Data Report
 University of Washington - Tacoma
 Tacoma, Washington

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Figure 18

P:\0183109\GIS\MXDs\DataReport\018310901_GeneralDataReport_F18_AOC8_DervilleParcel.mxd Date Exported: 12/15/17 by ccheif

P:\0183109\GIS\MXDs\DataReport\018310901_GeneralDataReport_F19_AOC9_KellyParcel.mxd Date Exported: 12/15/17 by ccheif



Legend

- AOC 9 - Kelly Parcel Boundary
- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Red Outline on Symbol Indicates Monitoring Well was Installed During 2016
- Well Decommissioned During Construction
- Temporary Monitoring Well Installed in Direct-Push Boring (GeoEngineers, 2014)
- Historic Building Footprint and Potential Source of Contaminated Groundwater
- Potential Source Property (Contaminant of Concern)
- Estimated Extent of TCE in Deep Aquifer (See Figure 25)

TCE Concentrations in Shallow Aquifer (µg/L) (See Figure 21)

- > 500
- 250 - 500
- 100 - 250
- 50 - 100
- 5 - 50
- 1.6 - 5

Color Coding for Groundwater Result Pie Charts

- Gas TCE
- PCE
- COC Not Detected
- COC Detected at a Concentration Less than the RIGSL
- COC Detected at a Concentration Greater Than the RIGSL But Less Than 10 Times the RIGSL
- COC Detected at a Concentration 10 Times the RIGSL

Per 2016 RI Work Plan Future Investigation

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Direct Push Boring

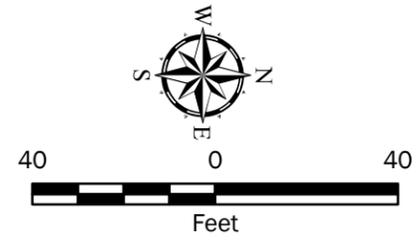
Notes:

1. Wells shown were sampled in 2016 and analyzed for VOCs. If pie chart not shown, the groundwater collected from the well was not analyzed for the chemicals.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from City of Tacoma 2015
 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
 AOC = Area of Concern
 µg/L = microgram per Liter
 COC = Chemical of Concern
 TCE = trichloroethene
 PCE = tetrachloroethene

RIGSL:
 PCE = 5 µg/L
 TCE = 1.6 µg/L
 Gasoline-Range Petroleum Hydrocarbons = 800 µg/L

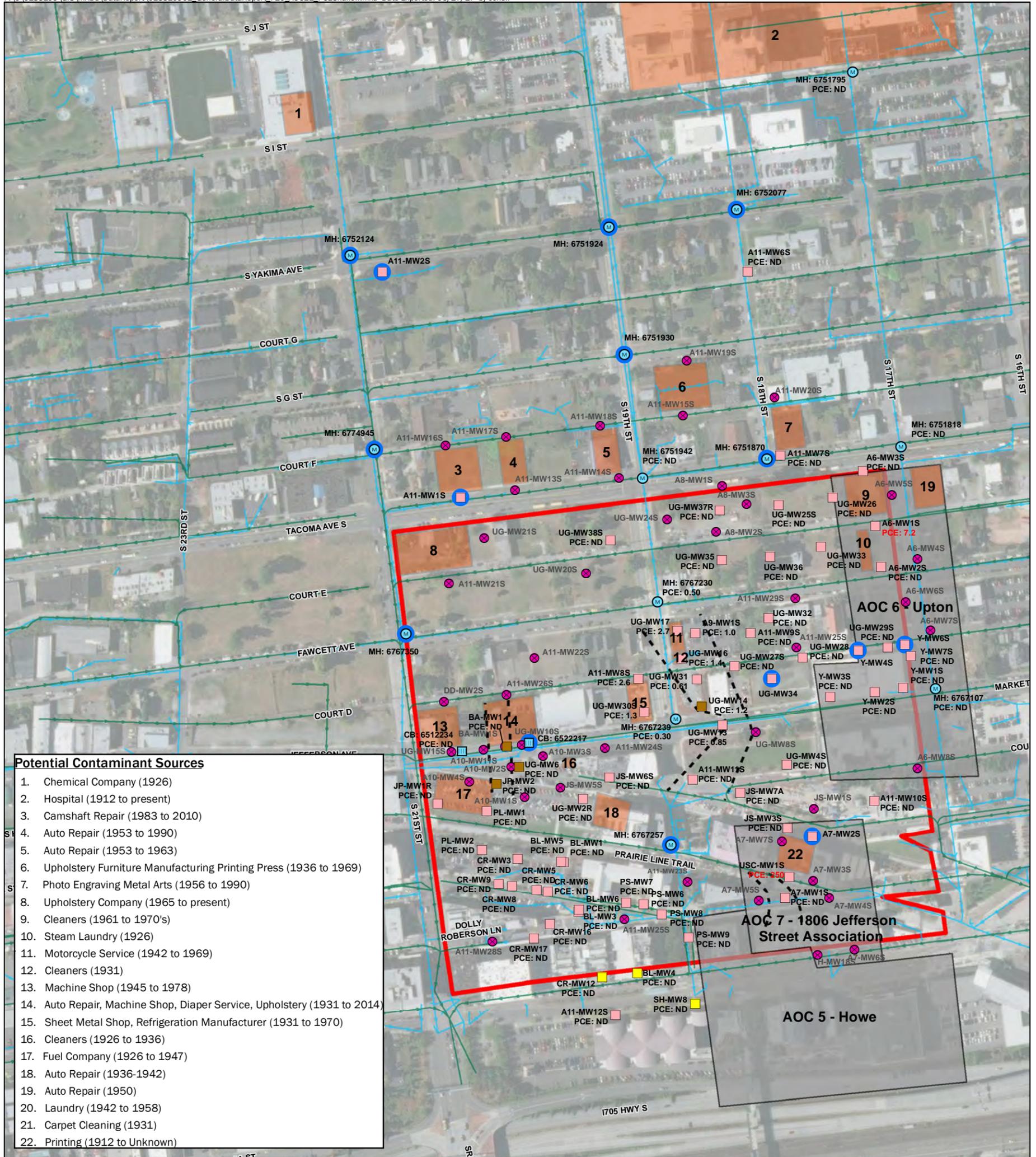


AOC 9 - Kelly Parcel

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Figure 19



Potential Contaminant Sources

1. Chemical Company (1926)
2. Hospital (1912 to present)
3. Camshaft Repair (1983 to 2010)
4. Auto Repair (1953 to 1990)
5. Auto Repair (1953 to 1963)
6. Upholstery Furniture Manufacturing Printing Press (1936 to 1969)
7. Photo Engraving Metal Arts (1956 to 1990)
8. Upholstery Company (1965 to present)
9. Cleaners (1961 to 1970's)
10. Steam Laundry (1926)
11. Motorcycle Service (1942 to 1969)
12. Cleaners (1931)
13. Machine Shop (1945 to 1978)
14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
16. Cleaners (1926 to 1936)
17. Fuel Company (1926 to 1947)
18. Auto Repair (1936-1942)
19. Auto Repair (1950)
20. Laundry (1942 to 1958)
21. Carpet Cleaning (1931)
22. Printing (1912 to Unknown)

Legend

- UWT Master Plan Campus Boundary
 - Shallow Aquifer Monitoring Well
 - Shallow and Deep Aquifer Monitoring Well
 - Unconfirmed Aquifer Monitoring Well
 - Catch Basin Where Survey Was Completed
 - Manhole Where Survey Was Completed
 - Sample Not Collected in 2016
 - Potential Former Drainage Channel
 - Storm Drain Utility
 - Sewer Utility
 - Potential Source Property
 - Shallow Aquifer Monitoring Well
- Per 2016 RI Work Plan Future Investigation**
- PCE: ND/# Detected chemical concentration (µg/L) in groundwater collected from respective well in December 2016. ND indicates chemical was not detected at a concentration greater than laboratory report limit. If text is shown in red, then chemical was detected at a concentration greater than the RIGSL

RIGSL:
PCE = 5 µg/L

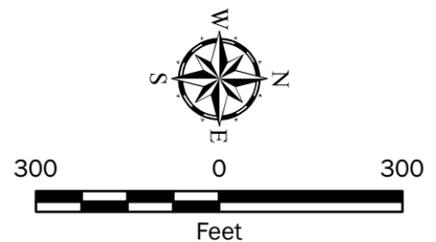
Notes:

RIGSL = Remedial Investigation Groundwater Screening Level
PCE = tetrachlorethene
ND = Not Detected
µg/L = microgram per Liter

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

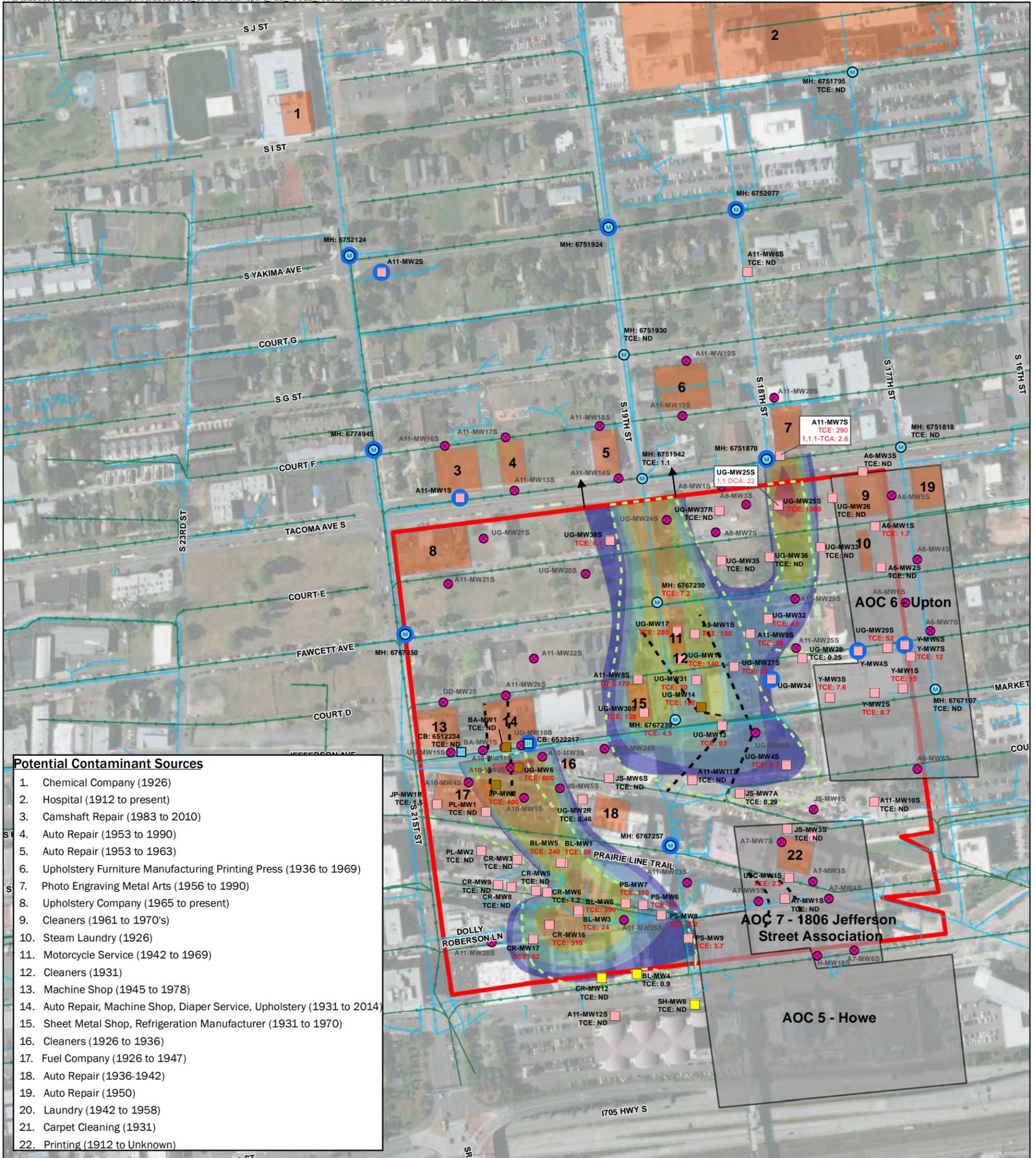


AOC 11 - PCE in Shallow Aquifer

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Tacoma, Washington



Figure 20



Potential Contaminant Sources

1. Chemical Company (1926)
2. Hospital (1912 to present)
3. Camshaft Repair (1983 to 2010)
4. Auto Repair (1953 to 1990)
5. Auto Repair (1953 to 1963)
6. Upholstery Furniture Manufacturing Printing Press (1936 to 1969)
7. Photo Engraving Metal Arts (1956 to 1990)
8. Upholstery Company (1965 to present)
9. Cleaners (1961 to 1970's)
10. Steam Laundry (1926)
11. Motorcycle Service (1942 to 1969)
12. Cleaners (1931)
13. Machine Shop (1945 to 1978)
14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
16. Cleaners (1926 to 1936)
17. Fuel Company (1926 to 1947)
18. Auto Repair (1936-1942)
19. Auto Repair (1950)
20. Laundry (1942 to 1958)
21. Carpet Cleaning (1931)
22. Printing (1912 to Unknown)

Legend

- UWT Master Plan Campus Boundary
 - Shallow Aquifer Monitoring Well
 - Shallow and Deep Aquifer Monitoring Well
 - Unconfirmed Aquifer Monitoring Well
 - Catch Basin Where Survey Was Completed
 - Manhole Where Survey Was Completed
 - Sample Not Collected in 2016
 - Potential Former Drainage Channel
 - Approximate Lateral Extent of TCE in Shallow Aquifer (2013 Data)
 - Storm Drain Utility
 - Sewer Utility
 - Potential Source Property
- TCE: 6.7 Detected chemical concentration (µg/L) in groundwater collected from respective well in December 2016. ND indicates chemical was not detected at a concentration greater than laboratory report limit. If text is shown in red, then chemical was detected at a concentration greater than the RIGSL
- Per 2016 RI Work Plan Future Investigation**
- Shallow Aquifer Monitoring Well
- TCE Concentrations in Shallow Aquifer (µg/L)**
- > 500
 - 250 - 500
 - 100 - 250
 - 50 - 100
 - 5 - 50
 - 1.6 - 5

Notes:

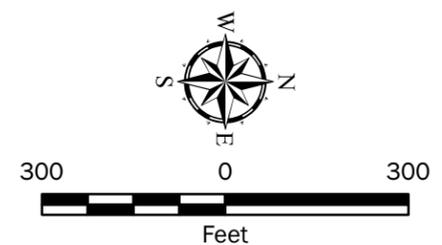
RIGSL = Remedial Investigation Groundwater Screening Level
 TCE = Trichloroethene
 TCA = Trichloroethane
 DCA = Dichloroethane
 ND = Not Detected
 µg/L = microgram per Liter
 > = Greater Than

RIGSL:
 TCE = 1.6 µg/L
 1,1-DCA = 7.8 µg/L
 1,1,1-TCA = 200 µg/L

RIGSL = Remedial Investigation Groundwater Screening Level
 1. BL-MW3 and BL-MW1 results not included in contouring.
 2. The locations of all features shown are approximate.
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

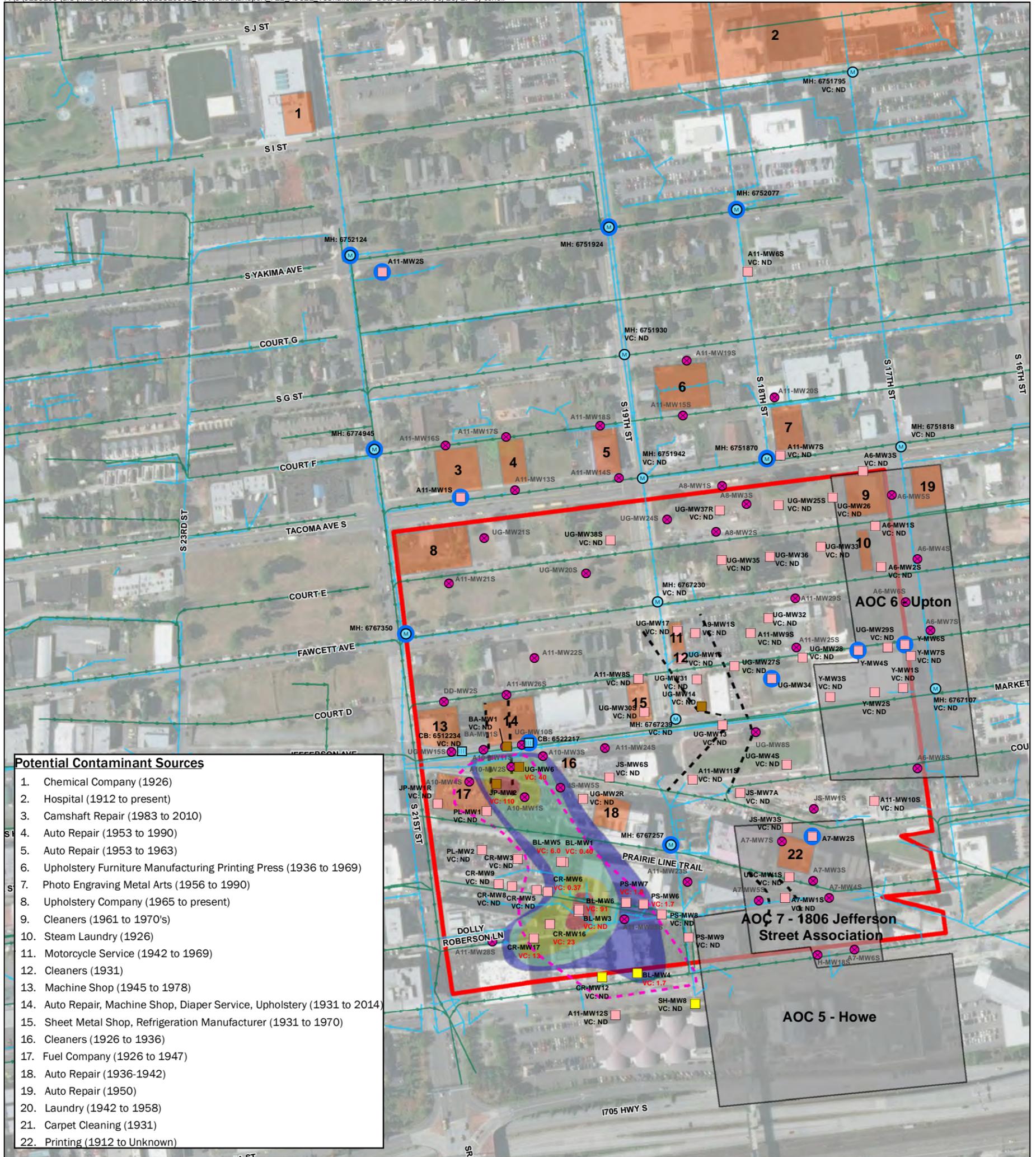


AOC 11 - TCE in Shallow Aquifer

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 Tacoma, Washington



Figure 21



Potential Contaminant Sources

1. Chemical Company (1926)
2. Hospital (1912 to present)
3. Camshaft Repair (1983 to 2010)
4. Auto Repair (1953 to 1990)
5. Auto Repair (1953 to 1963)
6. Upholstery Furniture Manufacturing Printing Press (1936 to 1969)
7. Photo Engraving Metal Arts (1956 to 1990)
8. Upholstery Company (1965 to present)
9. Cleaners (1961 to 1970's)
10. Steam Laundry (1926)
11. Motorcycle Service (1942 to 1969)
12. Cleaners (1931)
13. Machine Shop (1945 to 1978)
14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
16. Cleaners (1926 to 1936)
17. Fuel Company (1926 to 1947)
18. Auto Repair (1936-1942)
19. Auto Repair (1950)
20. Laundry (1942 to 1958)
21. Carpet Cleaning (1931)
22. Printing (1912 to Unknown)

Legend

- | | | |
|--|---|--|
| UWT Master Plan Campus Boundary | Potential Former Drainage Channel | Per 2016 RI Work Plan Future Investigation |
| Shallow Aquifer Monitoring Well | Approximate Lateral Extent of VC in Shallow Aquifer (2013 Data) | Shallow Aquifer Monitoring Well |
| Shallow and Deep Aquifer Monitoring Well | Storm Drain Utility | VC Concentrations in Shallow Aquifer (µg/L) |
| Unconfirmed Aquifer Monitoring Well | Sewer Utility | > 50 |
| Catch Basin Where Survey Was Completed | Potential Source Property | 10 - 50 |
| Manhole Where Survey Was Completed | VC: 6.7 Detected chemical concentration (µg/L) in groundwater collected from respective well in December 2016. ND indicates chemical was not detected at a concentration greater than laboratory report limit. If text is shown in red, then chemical was detected at a concentration greater than the RIGSL | 5 - 10 |
| Sample Not Collected in 2016 | | 0.29 - 5 |

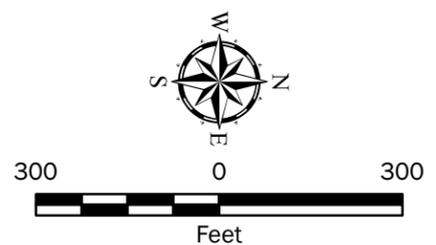
RIGSL:
VC = 0.29 µg/L

Notes:

- RIGSL = Remedial Investigation Groundwater Screening Level
 VC = Vinyl Chloride
 ND = Not Detected
 µg/L = microgram per Liter
 > = greater than
1. BL-MW3 and BL-MW1 results not included in contouring.
 2. The locations of all features shown are approximate.
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet



AOC 11 - Vinyl Chloride in Shallow Aquifer

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 Tacoma, Washington



Figure 22



Potential Contaminant Sources

1. Chemical Company (1926)
2. Hospital (1912 to present)
3. Camshaft Repair (1983 to 2010)
4. Auto Repair (1953 to 1990)
5. Auto Repair (1953 to 1963)
6. Upholstery Furniture Manufacturing Printing Press (1936 to 1969)
7. Photo Engraving Metal Arts (1956 to 1990)
8. Upholstery Company (1965 to present)
9. Cleaners (1961 to 1970's)
10. Steam Laundry (1926)
11. Motorcycle Service (1942 to 1969)
12. Cleaners (1931)
13. Machine Shop (1945 to 1978)
14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
16. Cleaners (1926 to 1936)
17. Fuel Company (1926 to 1947)
18. Auto Repair (1936-1942)
19. Auto Repair (1950)
20. Laundry (1942 to 1958)
21. Carpet Cleaning (1931)
22. Printing (1912 to Unknown)

Legend

- | | | | | | |
|--|--|--|-----------------------------------|--|--|
| | UWT Master Plan Campus Boundary | | Potential Former Drainage Channel | | Deep Aquifer Monitoring Well |
| | Deep Aquifer Monitoring Well | | Storm Drain Utility | | Shallow and Deep Aquifer Monitoring Well |
| | Unconfirmed Aquifer Monitoring Well | | Sewer Utility | | Potential Source Property |
| | Catch Basin Where Survey Was Completed | | PCE: ND/# | Detected chemical concentration (µg/L) in groundwater collected from respective well in December 2016. ND indicates chemical was not detected at a concentration greater than laboratory report limit. If text is shown in red, then chemical was detected at a concentration greater than the RIGSL | |
| | Manhole Where Survey Was Completed | | | | |
| | Sample Not Collected in 2016 | | | | |

RIGSL:
PCE = 5 µg/L

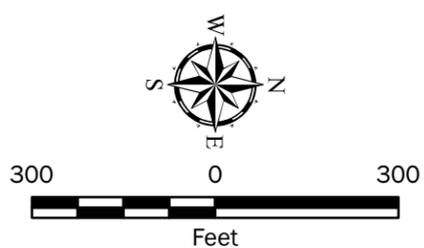
Notes:
RIGSL = Remedial Investigation Groundwater Screening Level
PCE = tetrachlorethene
ND = Not Detected
µg/L = microgram per Liter
> = greater than
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

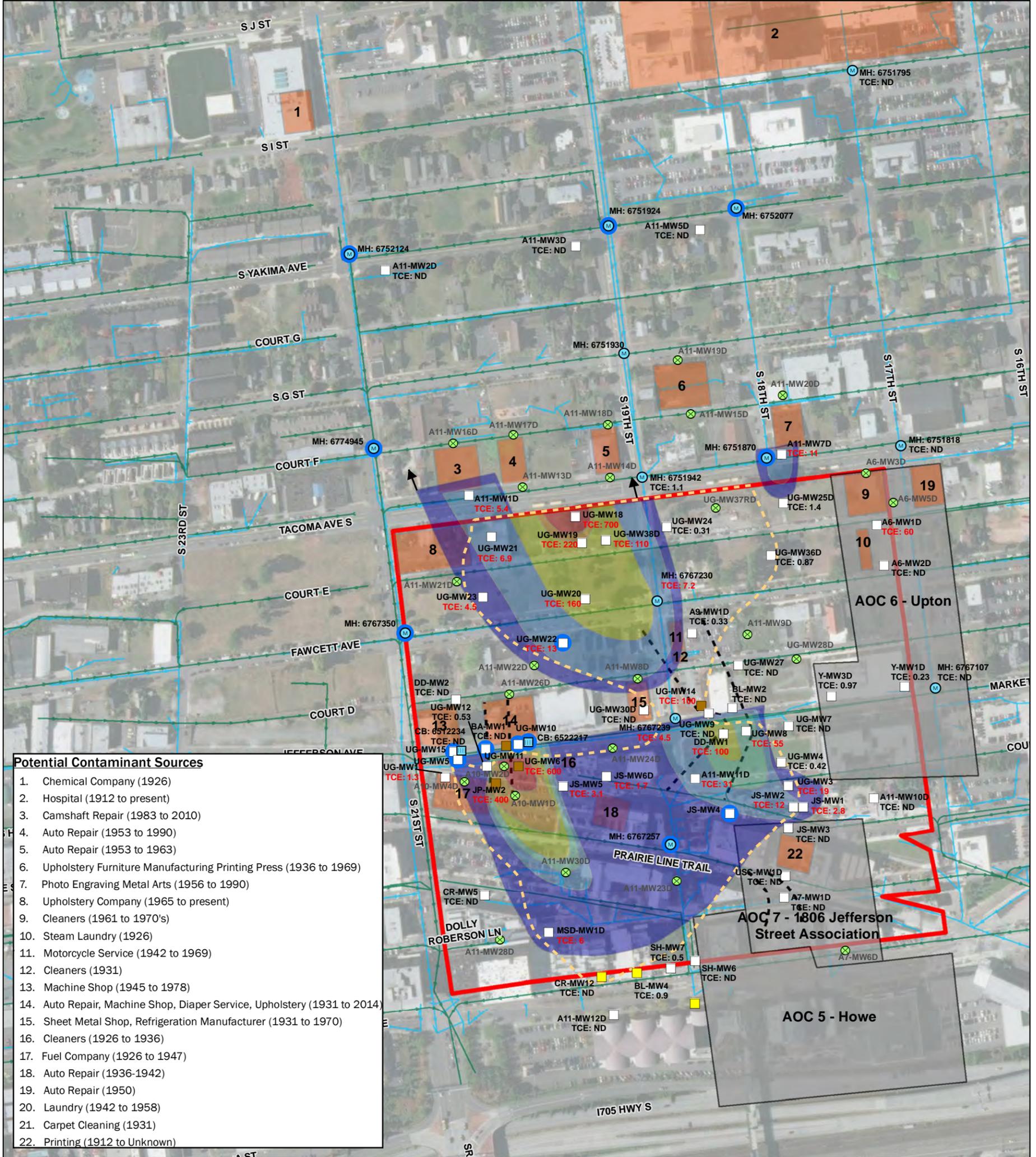
Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

Per 2016 RI Work Plan Future Investigation

-
- PCE Concentrations in Deep Aquifer (µg/L)**
-
-



AOC 11 - PCE in Deep Aquifer	
Agreed Order Remedial Investigation 2016 Data Report University of Washington - Tacoma Tacoma, Washington	
	Figure 23



Potential Contaminant Sources

1. Chemical Company (1926)
2. Hospital (1912 to present)
3. Camshaft Repair (1983 to 2010)
4. Auto Repair (1953 to 1990)
5. Auto Repair (1953 to 1963)
6. Upholstery Furniture Manufacturing Printing Press (1936 to 1969)
7. Photo Engraving Metal Arts (1956 to 1990)
8. Upholstery Company (1965 to present)
9. Cleaners (1961 to 1970's)
10. Steam Laundry (1926)
11. Motorcycle Service (1942 to 1969)
12. Cleaners (1931)
13. Machine Shop (1945 to 1978)
14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
16. Cleaners (1926 to 1936)
17. Fuel Company (1926 to 1947)
18. Auto Repair (1936-1942)
19. Auto Repair (1950)
20. Laundry (1942 to 1958)
21. Carpet Cleaning (1931)
22. Printing (1912 to Unknown)

Legend

- UWT Master Plan Campus Boundary
- Deep Aquifer Monitoring Well
- Shallow and Deep Aquifer Monitoring Well
- Unconfirmed Aquifer Monitoring Well
- Catch Basin Where Survey Was Completed
- Manhole Where Survey Was Completed
- Sample Not Collected in 2016
- Potential Former Drainage Channel
- Storm Drain Utility
- Sewer Utility
- Potential Source Property
- Approximate Lateral Extent of TCE in Deep Aquifer (2013 Data)
- TCE: 6.7 Detected chemical concentration (µg/L) in groundwater collected from respective well in December 2016. ND indicates chemical was not detected greater than laboratory report limit. If text is shown in red, then chemical was detected at a concentration greater than the RIGSL

RIGSL:
PCE = 5 µg/L
TCE = 1.6 µg/L

Notes:

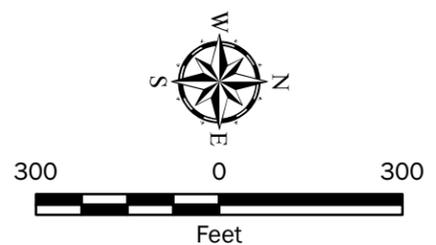
- RIGSL = Remedial Investigation Groundwater Screening Level
- TCE = trichloroethene
- TCA = trichloroethane
- DCA = Dichloroethane
- ND = Not Detected
- µg/L = microgram per Liter
- > = greater than
- 1. BL-MW3 and BL-MW1 results not included in contouring.
- 2. The locations of all features shown are approximate.
- 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

Per 2016 RI Work Plan Future Investigation

- Deep Aquifer Monitoring Well
- TCE Concentrations in Deep Aquifer (µg/L)**
- > 500
 - 250 - 500
 - 100 - 250
 - 50 - 100
 - 5 - 50
 - 1.5 - 5

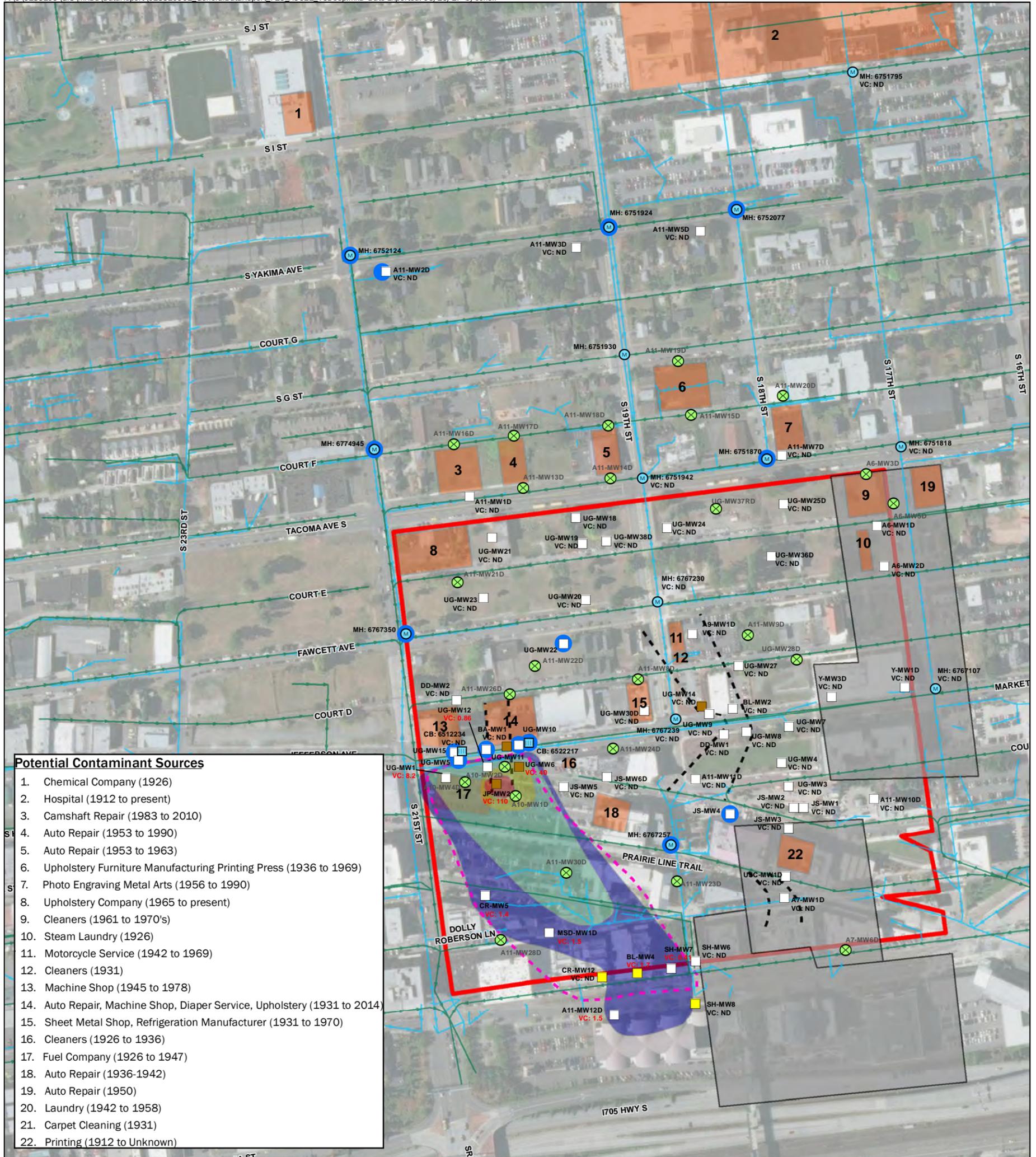


AOC 11 - TCE in Deep Aquifer

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Figure 24



Potential Contaminant Sources

1. Chemical Company (1926)
2. Hospital (1912 to present)
3. Camshaft Repair (1983 to 2010)
4. Auto Repair (1953 to 1990)
5. Auto Repair (1953 to 1963)
6. Upholstery Furniture Manufacturing Printing Press (1936 to 1969)
7. Photo Engraving Metal Arts (1956 to 1990)
8. Upholstery Company (1965 to present)
9. Cleaners (1961 to 1970's)
10. Steam Laundry (1926)
11. Motorcycle Service (1942 to 1969)
12. Cleaners (1931)
13. Machine Shop (1945 to 1978)
14. Auto Repair, Machine Shop, Diaper Service, Upholstery (1931 to 2014)
15. Sheet Metal Shop, Refrigeration Manufacturer (1931 to 1970)
16. Cleaners (1926 to 1936)
17. Fuel Company (1926 to 1947)
18. Auto Repair (1936-1942)
19. Auto Repair (1950)
20. Laundry (1942 to 1958)
21. Carpet Cleaning (1931)
22. Printing (1912 to Unknown)

Legend

- | | | |
|--|--|---|
| UWT Master Plan Campus Boundary | Potential Former Drainage Channel | Per 2016 RI Work Plan Future Investigation |
| Deep Aquifer Monitoring Well | Approximate Lateral Extent of VC in Deep Aquifer (2013 Data) | Deep Aquifer Monitoring Well |
| Shallow and Deep Aquifer Monitoring Well | Storm Drain Utility | VC Concentrations in Deep Aquifer (µg/L) |
| Unconfirmed Aquifer Monitoring Well | Sewer Utility | > 50 |
| Catch Basin Where Survey Was Completed | Potential Source Property | 10 - 50 |
| Manhole Where Survey Was Completed | VC: 6.7 Detected chemical concentration (µg/L) in groundwater collected from respective well in December 2016. ND indicates chemical was not detected at a concentration greater than laboratory report limit. If text is shown in red, then chemical was detected at a concentration greater than the RIGSL | 5 - 10 |
| Sample Not Collected in 2016 | | 0.29 - 5 |

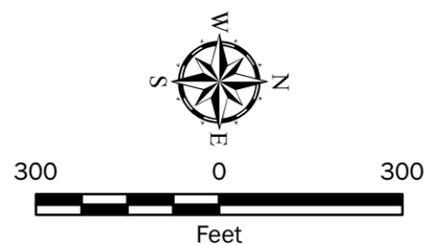
RIGSL:
VC = 0.29 µg/L

Notes:

- RIGSL = Remedial Investigation Groundwater Screening Level
VC = Vinyl Chloride
ND = Not Detected
µg/L = microgram per Liter
> = greater than
1. BL-MW3 and BL-MW1 results not included in contouring.
 2. The locations of all features shown are approximate.
 3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2016

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

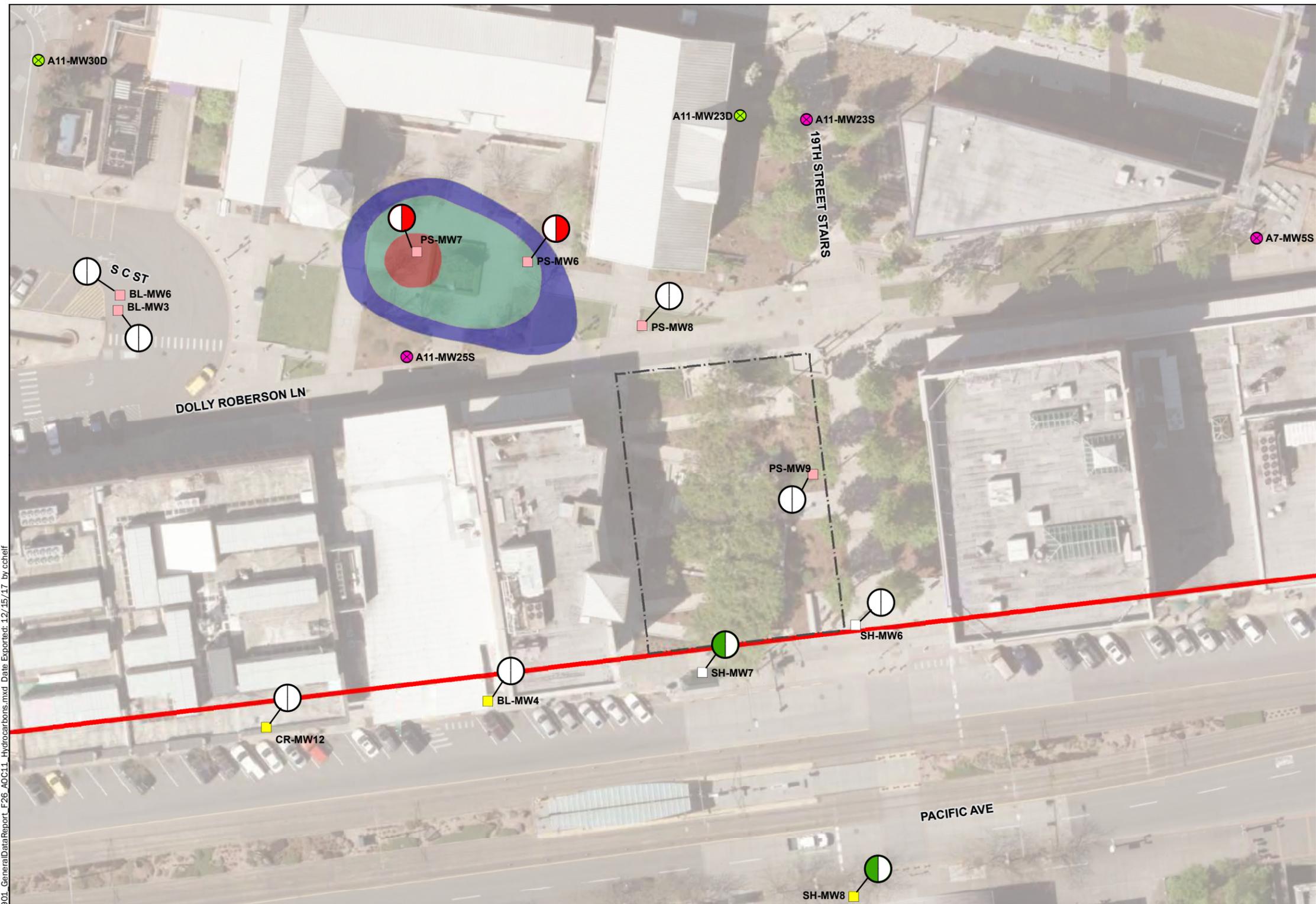


AOC 11 - Vinyl Chloride in Deep Aquifer

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Figure 25



Legend

- UWT Master Plan Campus Boundary
- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Shallow and Deep Aquifer Monitoring Well

Color Coding for Groundwater Result Pie Charts

<ul style="list-style-type: none"> Gasoline-Range Petroleum Hydrocarbons ○ COC Not Detected ● COC Detected at a Concentration Less than the RIGSL ● COC Detected at a Concentration Greater Than the RIGSL But Less Than 10 Times the RIGSL ● COC Detected at a Concentration 10 Times the RIGSL 	<ul style="list-style-type: none"> ○ Diesel-Range Petroleum Hydrocarbons
---	---

Per 2016 RI Work Plan Future Investigation

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well

Total Petroleum Hydrocarbon Concentrations (µg/L)

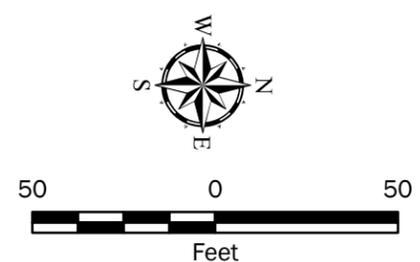
- > 10,000
- 5,000 - 10,000
- 500 - 5,000

RIGSL:
 Diesel-Range Petroleum Hydrocarbons = 500 µg/L
 Gasoline = 800 µg/L

Notes:

- Wells shown were sampled in 2016 and analyzed for total petroleum hydrocarbons. If pie chart not shown, the groundwater collected from the well was not analyzed for the chemicals.
- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Data Source: Aerial from City of Tacoma 2015
 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
 AOC = Area of Concern
 µg/L = microgram per Liter
 COC = Chemical of Concern
 TPH = Total Petroleum Hydrocarbons
 ND = Not Detected



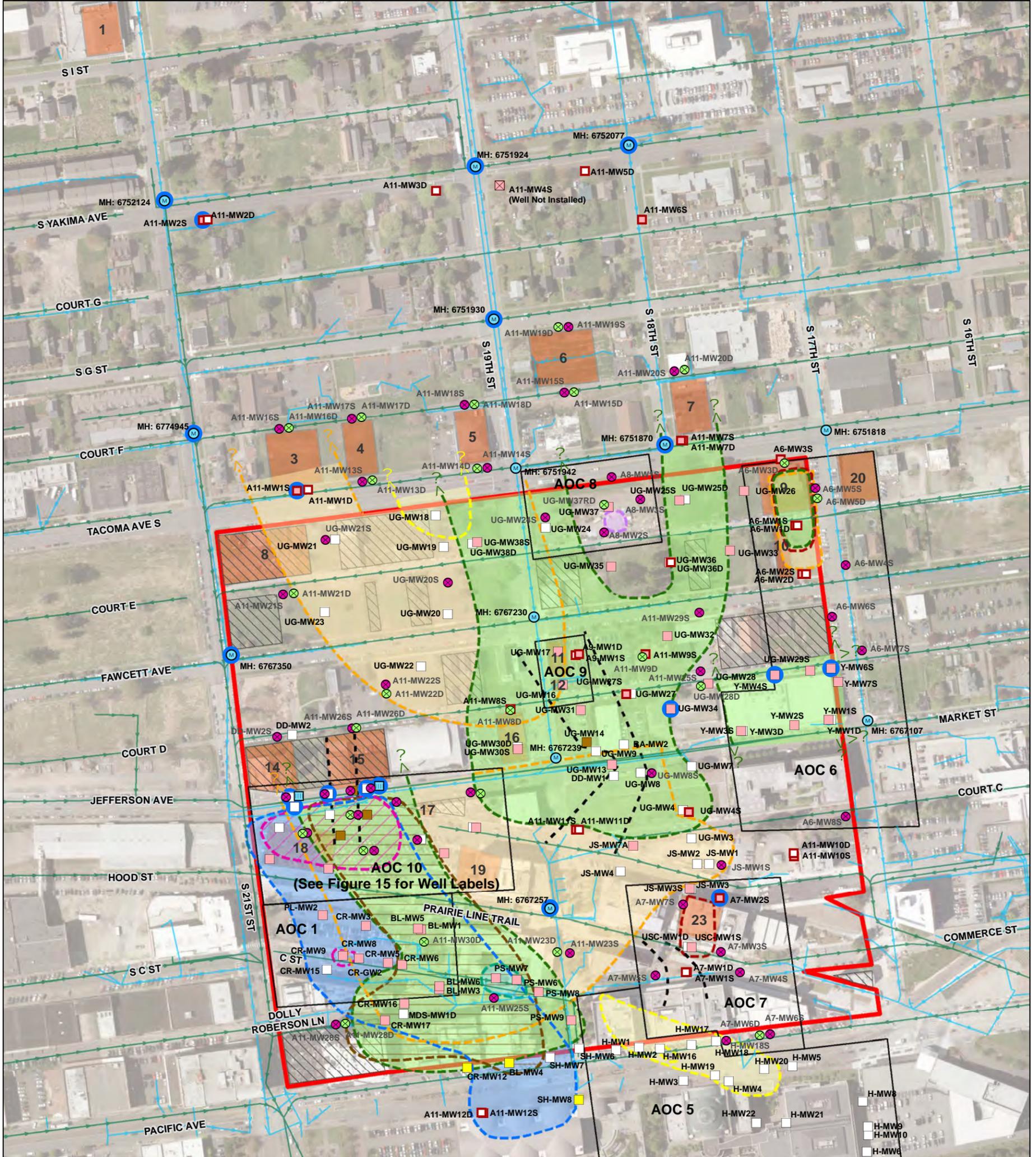
AOC 11 - Total Petroleum Hydrocarbons

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Figure 26

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Legend

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well
- Shallow and Deep Aquifer Monitoring Well
- Unconfirmed Aquifer Monitoring Well
- Red Outline on Symbol Indicates Monitoring Well Was Installed in 2016
- Catch Basin Where Survey Was Completed
- Manhole Where Survey Was Completed
- ⊗ Monitoring Well Planned But Not Installed
- Blue Outline Indicates Was Not Sampled in 2016 for Various Reasons as Described in Report

Per 2016 RI Work Plan Future Investigation

- Shallow
- Deep
- Storm Drain Utility
- Sewer Utility
- Potential Former Drainage Channel
- UWT Master Plan Campus Boundary
- ▨ Parcel Not Owned by UW But Within Master Plan Boundary
- Potential Source Property of TCE/PCE Contaminated Groundwater
- Area of Concern (AOC)

Approximate Lateral Extent of Contaminated Groundwater Plumes

- TCE in Shallow Aquifer
- TCE in Deep Aquifer
- PCE in Shallow Aquifer
- PCE in Deep Aquifer
- Vinyl Chloride in Shallow Aquifer
- Vinyl Chloride in Deep Aquifer
- Benzene in Deep or Unconfirmed Aquifer
- Gasoline-Range Petroleum Hydrocarbons in Deep Aquifer
- Lube Oil-Range Petroleum Hydrocarbons in Shallow Aquifer
- Extent of Groundwater Contaminant Plume Not Known

RIGSL

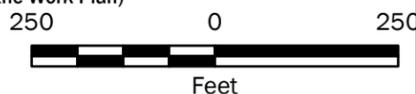
- PCE = 5 µg/L
- TCE = 1.5 µg/L
- cis-1,2 DCE = 16 µg/L
- trans-1,2-DCE = 640 µg/L
- 1,1 DCE = 3.2 µg/L
- Vinyl Chloride = 0.29 µg/L
- Gasoline = 800 µg/L
- Diesel = 500 µg/L
- Heavy Oil = 500 µg/L
- Benzene = 2.4 µg/L
- Ethylbenzene = 700 µg/L
- Toluene = 640 µg/L

Notes:

RIGSL = 2016 Remedial Investigation Groundwater Screening Levels
 AOC = Area of Concern
 TCE = Trichloroethene
 PCE = Tetrachloroethene
 µg/L = microgram per liter
 MTCA = Model Toxics Control Act

- The locations of all features shown are approximate.
- This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Data Source: Aerial from City of Tacoma 2015
 Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

AOC 2, 3 and 4 - Not shown because further investigation is not planned
AOC 11 - Not shown - includes sampling all groundwater wells and installation of wells not identified in individual AOCs
AOC 12 - Not shown - includes surficial soil samples as described in AOC 12 (Section 4.4 of the Work Plan)

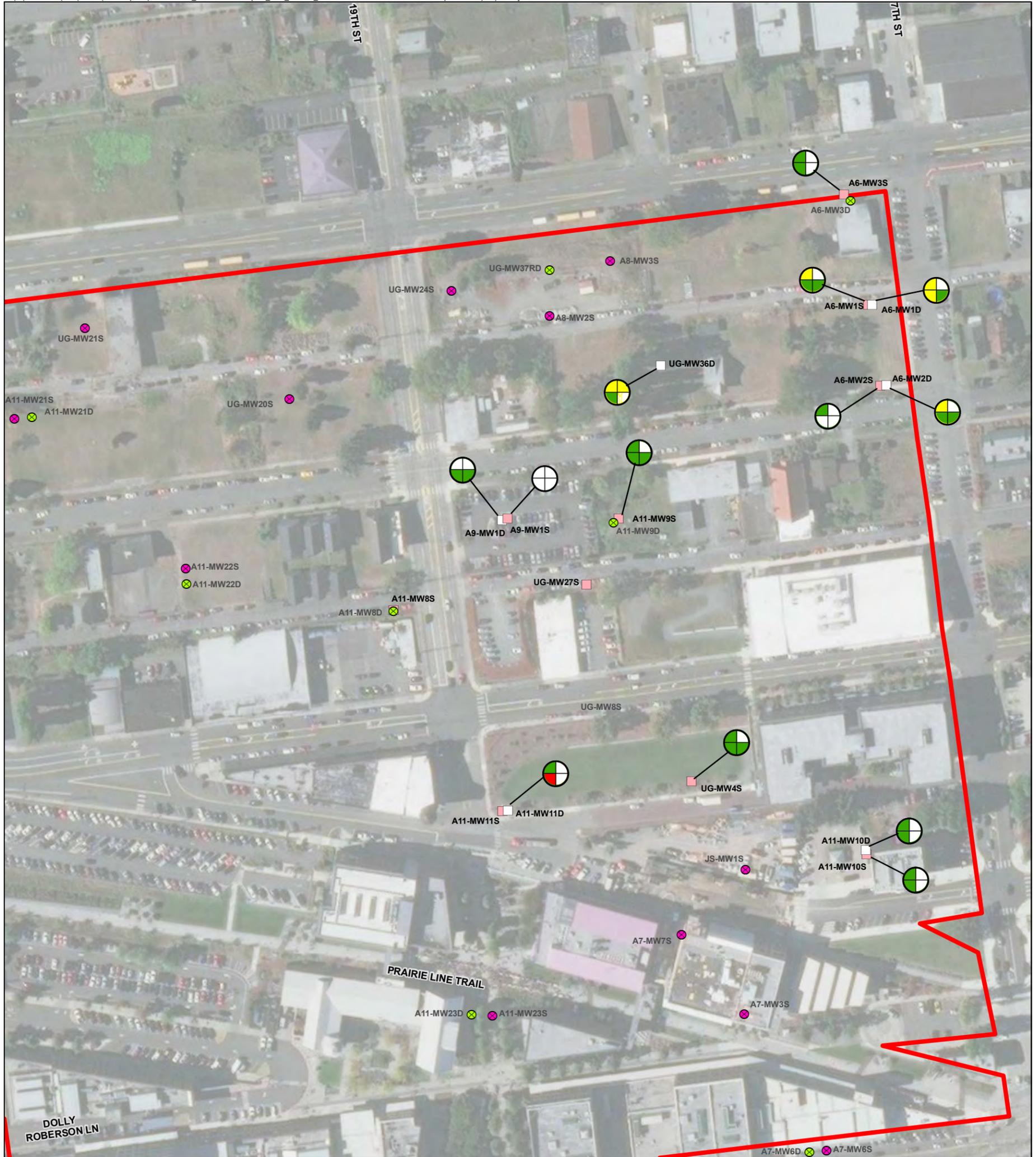


Groundwater Contaminant Plume Summary

Agreed Order Remedial Investigation 2016 Data Report
 University of Washington - Tacoma
 Tacoma, Washington



Figure 27



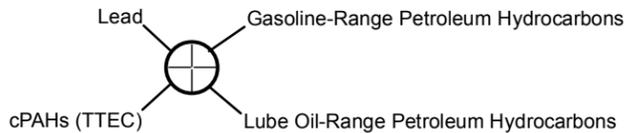
Legend

UWT Master Plan Campus Boundary

2016 Borings Completed Within AOC 12

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well

Color Coding for Soil Result Pie Charts



- COC Not Detected
- COC Detected at a Concentration Less than the RISSL
- COC Detected at a Concentration Greater Than the RISSL But Less Than 10 Times the RISSL
- COC Detected at a Concentration 10 Times the RISSL

RIGSL:
 Lead = 250 mg/kg
 cPAHs = 0.14 mg/kg
 Gasoline-Range = 30 mg/kg
 Lube-Range = 2,000 mg/kg

Notes:

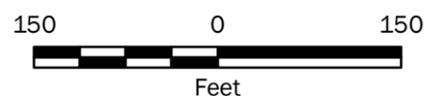
- ND = Not Detected
- mg/kg = milligram per kilogram
- cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons
- RISSL = Remedial Investigation Soil Screening Level
- 1. The locations of all features shown are approximate.
- 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Source: Aerial from ESRI 2011

Projection: NAD 1983 HARN StatePlane Washington South FIPS 4602 Feet

Per 2016 RI Work Plan Future Investigation in AOC-12

- Shallow Aquifer Monitoring Well
- Deep Aquifer Monitoring Well



AOC 12 - Lead, cPAH and Gasoline- and Lube Oil-Range Petroleum Hydrocarbons

Agreed Order Remedial Investigation 2016 Data Report
 University of Washington - Tacoma
 Tacoma, Washington

GEOENGINEERS

Figure 28

APPENDIX A
Field Program

APPENDIX A FIELD PROGRAM

Rotosonic Core Soil Sampling Methodology

Soil samples were collected for chemical analysis based on the field screening results during rotosonic core drilling. Soil samples were collected continuously with a 4-inch, 5- to 10-foot-long core barrel sampler. The sampler was advanced into the soil using a rotary and vibratory drilling head. Upon retrieval, the sample was extruded into sample bags. Soil core temperatures were monitored using an infrared thermometer and noted on the lithologic log immediately after the sample is extruded to quantify the potential for volatilization of VOCs during drilling. The sample bag was cut open after the temperature is recorded to allow access to the recovered soil for collecting samples for chemical analyses and lithologic logging.

A representative from GeoEngineers observed the drilling activities. GeoEngineers maintained a detailed log of soil and groundwater conditions encountered in each boring. The soil samples were visually examined and classified in general accordance with ASTM International (ASTM) D 2488.

Discrete soil samples collected during drilling were submitted for chemical analysis. Soil samples to be submitted for chemical analysis to meet the following criteria.

- Where field screening indicates the soil is impacted, particularly sand and gravel lenses within the ice-contact deposits.
- Directly below potentially impacted soil to delineate the vertical extent.
- At the groundwater table if groundwater is encountered.
- At the top of confining layers if encountered.
- Every 5 to 10 feet in depth to the bottom of the boring.
- Selected soil samples may be collected and retained by the analytical laboratory for follow-up analysis to further delineate the vertical extent of contaminated soil.

Soil samples to be analyzed for volatile organic compounds (VOCs) and gasoline-range petroleum hydrocarbons were collected first, directly from the sample bag using the 5035A sampling method. A discrete soil sample was placed in a plastic bag and homogenized following the soil sample collection for VOCs. The homogenized soil was placed into the remaining sample containers provided by the analytical laboratory. Representative samples of the soil units along the depth of the well screen interval were collected for potential grain size analysis. The soil samples were placed into a cooler with ice and logged on the chain-of-custody record using the procedures described in the QAPP. Soil cuttings were stored in a drum at a secure facility on UWT campus pending off-site disposal. The IDW was transported for disposal to the Allied Waste transfer station in Seattle, Washington and subsequently disposed at the Allied Waste Roosevelt Subtitle D landfill in Roosevelt, Washington.

A representative from GeoEngineers' staff classified the soils encountered and prepare a detailed log of each exploration. The field representative visually classified the soil in accordance with ASTM Method D 2488 and record soil descriptions and other relevant field screening details (e.g., staining, debris, odors,

etc.) in the field log. ASTM Method D 2488 is the visual-manual soil description method that corresponds to laboratory ASTM Method D 2487 (Unified Soil Classification System method).

Samples were placed in a clean plastic-lined cooler with ice following collection. The objective of the cold storage was to attain a sample temperature of 2 to 6 degrees Celsius. GeoEngineers' field personnel provided for the security of samples from the time the samples are collected until the samples have been received by the courier service or laboratory personnel. A chain-of-custody form was completed for each group of samples being shipped to the laboratory per standard chain-of-custody protocol. Samples were transported and delivered to the analytical laboratory in the sample coolers by field personnel, laboratory personnel, by courier service, or by a commercial shipping company.

Field Screening

Soil samples were field-screened for evidence of possible contamination. Field screening results were recorded on the field logs and the results were used as a general guideline to delineate areas of potential contamination. Field screening methods consisted of visual screening, water sheen screening, and headspace vapor screening.

Visual Screening

The soil was observed for unusual color or staining that may be indicative of contamination.

Water Sheen Screening

This is a qualitative field screening method that can help identify the presence or absence of petroleum hydrocarbons. A portion of the soil sample was placed in a plastic sheen pan containing water. The water surface was observed for signs of sheen. The following sheen classifications were used during field screening:

Classification	Identifier	Description
No Sheen	(NS)	No visible sheen on the water surface
Slight Sheen	(SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly
Moderate Sheen	(MS)	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on the water surface
Heavy Sheen	(HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen

Headspace Vapor Screening

This is a semi-quantitative field screening method that can help identify the presence or absence of volatile chemicals. A portion of the sample is placed in a resealable plastic bag for headspace vapor screening as soon as possible following sample collection. Ambient air is captured in the bag and the bag is sealed and left for approximately 5 minutes. The bag is then shaken gently for approximately 10 seconds to expose the soil to the air trapped in the bag. Vapors present within the sample bag's headspace are measured by inserting the probe of a PID through a small opening in the bag.

A PID measures the concentration of organic vapors ionizable by a 10.6 electron volt lamp (standard) in parts per million (ppm) and quantifies organic vapor concentrations in the range between 0.1 ppm and 2,000 ppm (isobutylene-equivalent) with an accuracy of 1 ppm between 0 ppm and 100 ppm. The maximum ppm value was recorded on the field report for each sample. The PID was calibrated to fresh air of similar relative humidity experienced at the site and to 100 ppm isobutylene. The PID was recalibrated if site conditions change (ambient temperature, relative humidity, etc.).

Groundwater Monitoring Well Installation

Drilling and construction of the monitoring wells was conducted by a Washington State licensed driller in accordance with the Minimum Standards for Construction and Maintenance of Wells (Chapter 173-160 Washington Administrative Code [WAC], Ecology 2006). Installation of the monitoring wells was observed by a GeoEngineers representative who maintained a detailed log of the construction materials and well depths.

The following methodology was implemented to minimize potential cross contamination between the two aquifers during drilling.

- An 8-inch steel casing was driven through the ice-contact deposits just into the anticipated silt layer (if encountered) at the base of the ice-contact deposits in each boring. If groundwater is observed to be present within the ice-contact deposits then the 8-inch casing was terminated at the silt layer to seal the 8-inch casing and allow for telescoping further down using a smaller diameter steel casing into the advance outwash. The 8-inch casing was lifted approximately 1 foot as the borehole is filled with at least 3 feet of bentonite. The bentonite was hydrated with potable water and let sit for at least 1 hour. Water within the casing was removed via a bailer or pump. The smaller diameter casing was placed inside the larger casing to seal off the groundwater within the shallow aquifer. The inner casing was continued to be driven until the desired aquifer unit is located.
- A single well casing was utilized in locations when the bottom of the well is anticipated to be completed within the ice-contact deposits, the confining silt layer is not observed between the ice-contact deposits and advance outwash or groundwater is not observed within the ice-contact deposits at the time of drilling.

Wells were constructed using 2-inch-diameter, flush-threaded Schedule 40 polyvinyl chloride (PVC) casing with machine-slotted PVC screen (0.010 inch). Details on depths and construction of each proposed well are provided in the Work Plan. However, the actual well depths were based on field conditions observed at the time of drilling.

Groundwater Monitoring Well Survey

A licensed surveyor performed an elevation and location survey of the new monitoring wells to the following vertical datum used on previous wells: City of Tacoma benchmark book published by City of Public Works, July 1, 1990, NGVD 1929 and horizontal datum of NAD 1983.

Permanent Monitoring Well Development

Newly installed groundwater monitoring wells were developed prior to sampling. A field form was completed with details describing location, condition, water levels, sediment depths, and product levels (if any) observed during inventory activities prior to beginning well development. Each new groundwater monitoring

well was developed to stabilize the sand pack and formation materials surrounding the well screen and restore the hydraulic connection between the well screen and the surrounding soil. The head space vapors in the monitoring wells was measured upon removing the cap to the well. The depth to groundwater in each monitoring well was measured prior to development using an electric water level indicator.

The well screen was gently surged with surge block and purged of water with a pump. Development continued until a minimum of 10 casing volumes of water has been removed or the turbidity of the discharged water is relatively low. The goal of well development was to reduce the turbidity content of the water to approximately 25 nephelometric turbidity units (NTU). The removal rate and volume of groundwater removed was recorded on field forms during well development procedures. Water removed during well development activities was stored temporarily in a portable tank and transferred to drums or water storage tank staged at a secure facility on UWT Campus pending approved sewer discharge or off-site disposal.

Permanent Groundwater Monitoring Well Groundwater Sampling Protocol

The depth to water was measured and recorded in each well prior to sampling using an electronic water level indicator.

Groundwater samples were obtained using low-flow/low-turbidity sampling techniques to minimize the suspension of particulates in the samples. Groundwater samples were obtained from monitoring wells using a peristaltic pump or decontaminated bladder pump with disposable bladder. Tubing was placed at the mid-portion of the well screen interval or half way within the water column if the water column height is less than the screen length. Groundwater was pumped at approximately 0.5 liters per minute or less. Groundwater was pumped at a reduced rate to prevent drawdown of greater than 10 percent of the water column. The drawdown was marked on the field logs if drawdown is necessary in order to obtain a sample.

A water quality measuring system with a flow-through-cell was used to monitor the following water quality parameters during purging. Water quality parameters included electrical conductivity, dissolved oxygen, pH, salinity, total dissolved solids, oxidation-reduction potential and temperature. Turbidity was measured using a turbidimeter.

Groundwater samples were collected when the water quality parameters vary by less than 10 percent for three consecutive measurements or three well volumes have been removed. Field measurements were documented on the field log. The flow-through-cell was disconnected and the groundwater sample was obtained in laboratory-prepared containers following well purging activities.

The water samples were placed into a cooler with ice and logged on the chain-of-custody record using the procedures described in the QAPP. The groundwater samples were submitted for the chemical analyses. Purge water was temporarily stored in a portable tank and transferred to drums/water storage tank at a secure facility on UWT Campus pending approved sewer discharge or off-site disposal. Purge water was characterized and disposed at Marine Vacuum.

Manhole and Catch Basin Water Sampling

Water in basins, manholes, or utility lines may be sampled for chemical analysis of VOCs, metals, petroleum hydrocarbons or other constituents of concern. The sampling methods used to sample water included dipping rods.

A PID was used to measure volatile organics in the headspace of enclosed spaces (manholes, catch basins, cisterns, etc.) prior to sampling. The PID was placed through a hole or other opening in the lid before opening when possible. The headspace was screened again with the PID after opening the lid and both readings recorded.

The following general methods were used during surface water sampling:

- Samples were collected from or near the inflow point when possible.
- Non-disposable equipment was thoroughly decontaminated before and after the collection of each surface water sample.
- The sampling cup was thoroughly rinsed with sample water before collecting the sample when using dipping rods.
- Care was taken minimize agitation of bottom sediments (if present).
- The water samples were placed into a cooler with ice and logged on the chain-of-custody record using the procedures described in the QAPP.

Measurement of Water Flow in Stormwater Pipes

In order to evaluate if groundwater is flowing into storm water pipes. Multiple manholes were monitoring semiannually at least 24 hours after a rain event greater than 0.1 inches. We attempted to coincide the manhole monitoring with the groundwater well monitoring events. Water flow was measured with a Greyline Stingray Level Velocity Logger attached to a pole and placed on the bottom of the pipe.

Transducers

INW level scout transducers were installed in 10 wells located near the bottom of the well. The transducers were attached to the well cap with stainless steel wire. The transducers measures level, temperature, and time. The transducers were programed using the Aqua4plus control software to continuously record the water level every 10 minutes. The transducers were removed as necessary to collect water level measurements or water samples. The barometric pressure for data correction is recorded with a INW Baroscout meter, located in the GeoEngineers unventilated storage room less than 1 mile from the UWT Campus, 1101 South Fawcett Avenue, Tacoma, Washington.

Water Level Measurement

The depth to water was measured and recorded in each well prior to sampling using an electronic water level indicator. Depth to groundwater was measured in the new and existing monitoring wells in a 12-hour period.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
	SAND AND SANDY SOILS	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab
	Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

A "WOH" indicates sampler pushed using the weight of the hammer.

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/Quarry Spalls
	TS	Topsoil/Forest Duff/Sod

Groundwater Contact



Measured groundwater level in exploration, well, or piezometer



Measured free product in well or piezometer

Graphic Log Contact



Distinct contact between soil strata



Approximate contact between soil strata

Material Description Contact



Contact between geologic units



Contact between soil of the same geologic unit

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PP	Pocket penetrometer
PPM	Parts per million
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen
NT	Not Tested

KEY TO EXPLORATION LOGS



FIGURE A-1

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing	Water Level				
35				A6-MW1D-35-36 CA; SA; OC; MD			Brown fine to coarse sand with fine to coarse gravel and silt (wet) (Qva?)			<p>2-inch Schedule 40 PVC screen, 0.010-inch slot width 10-20 silica sand backfill</p>
							Increased silt content; appears less wet	NS		
40	60			A6-MW1D-38-39 CA DUP1-20160809 CA A6-MW1D-40-41 CA		GP-GM	Brown/gray medium to coarse sand with fine to coarse gravel and silt (wet) (Qva?)	<1		
								NS	<1	
45				A6-MW1D-44-45 CA; SA; OC; MD			Well was telescoped at base of shallow aquifer per the 2016 RI Work Plan		<1	45.0'

Note: See Figure A-1 for explanation of symbols.

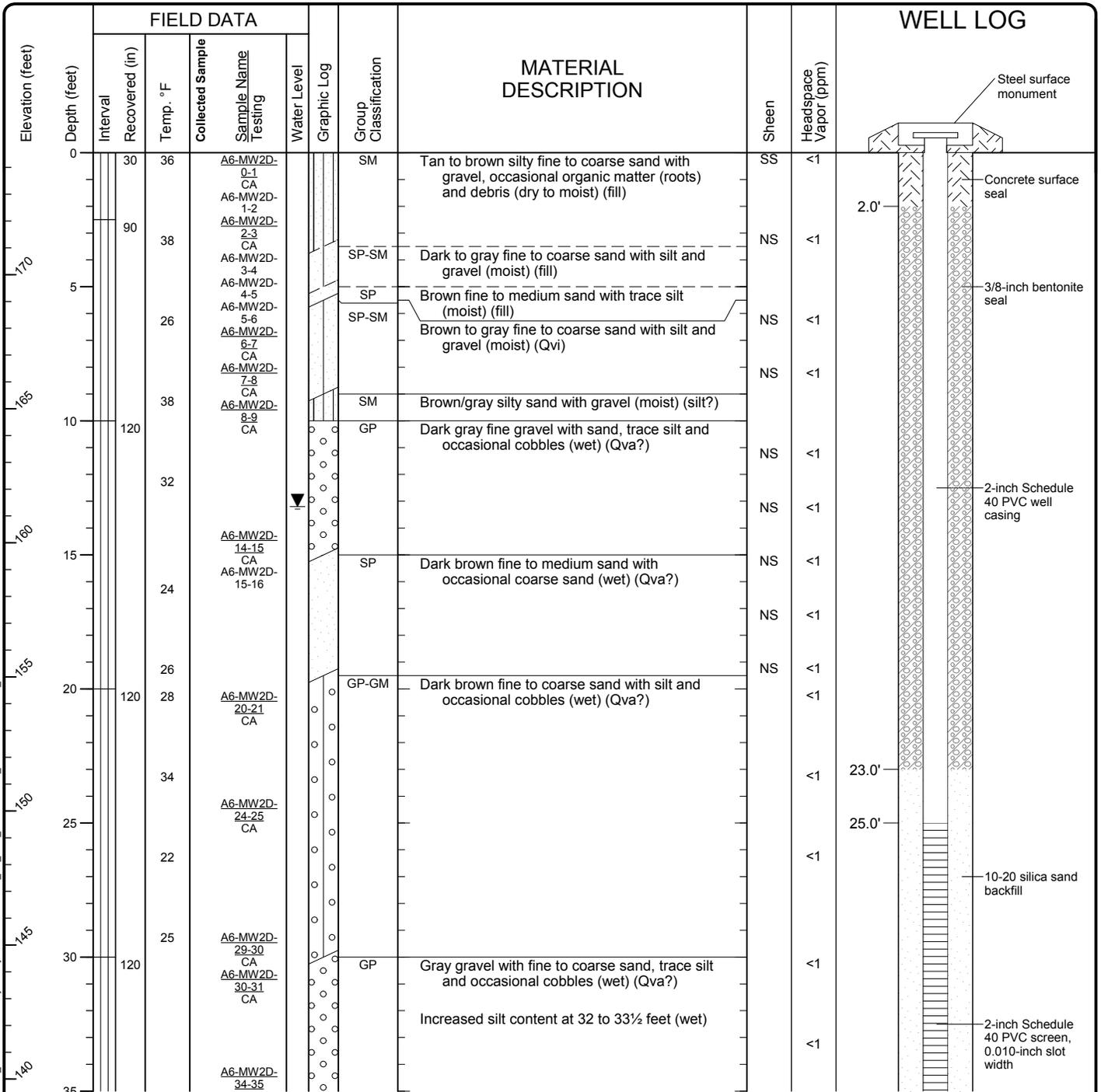
Log of Monitoring Well A6-MW1D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-2
 Sheet 2 of 2

Start Drilled 8/18/2016	End 8/18/2016	Total Depth (ft)	70	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/18/2016 to a depth of 70 (ft).
Surface Elevation (ft) Vertical Datum	174.55 NGVD29	Top of Casing Elevation (ft)	174.05		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Latitude Longitude	47.24651111 -122.441683	Horizontal Datum	Geographic NAD83		12/27/2016	13.2	161.4
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91							



Note: See Figure A-1 for explanation of symbols.

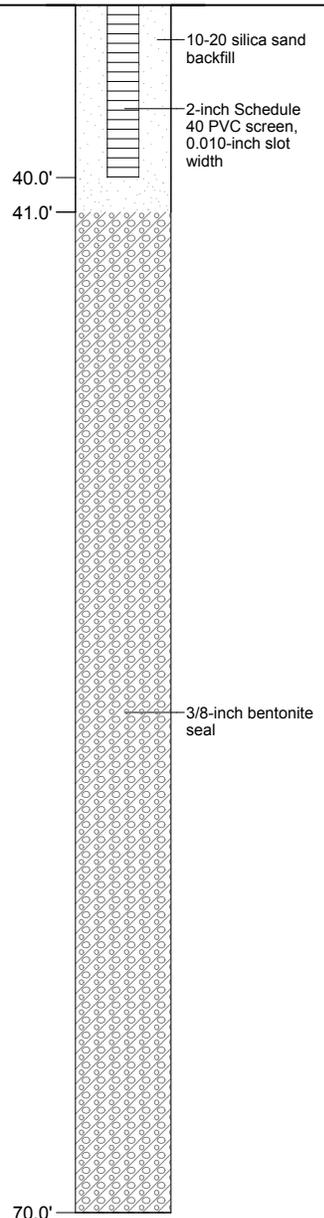
Log of Monitoring Well A6-MW2D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183-109-01\GINT\0183-109-01-GPJ-DL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG	
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing				Water Level	Graphic Log
35					CA					
135	40	120			A6-MW2D-39-40 CA		SP	Gray fine to medium sand with gravel and silt (wet) (Qva?)	NS	<1
							GP-GM	Gray gravel with fine to coarse sand, silt and occasional cobbles (moist) (potential additional semi-confining layer?)		<1
130	45				A6-MW2D-42.5-43.5 CA		GM	Gray silty gravel with fine to coarse sand and occasional cobbles (moist) (potential additional semi-confining layer?)	NS	<1
					A6-MW2D-44-45 CA					
					A6-MW2D-45-46 CA					
125	50	120			A6-MW2D-49-50 CA		SM	Brown to gray silt, sand, and occasional gravel and cobbles (moist) (potential additional semi-confining layer?)	NS	<1
							GP-GM	Brown gravel with fine to coarse sand, occasional cobbles and silt (wet) (Qva)		<1
120	55				A6-MW2D-54-55 CA				NS	<1
115	60	120			A6-MW2D-59-60 CA				NS	<1
110	65									
105	70						SP	Gray fine to medium sand with occasional coarse sand and trace silt (wet) (Qva)	NS	<1



Well was telescoped at base of shallow aquifer per the 2016 RI Work Plan

Note: See Figure A-1 for explanation of symbols.

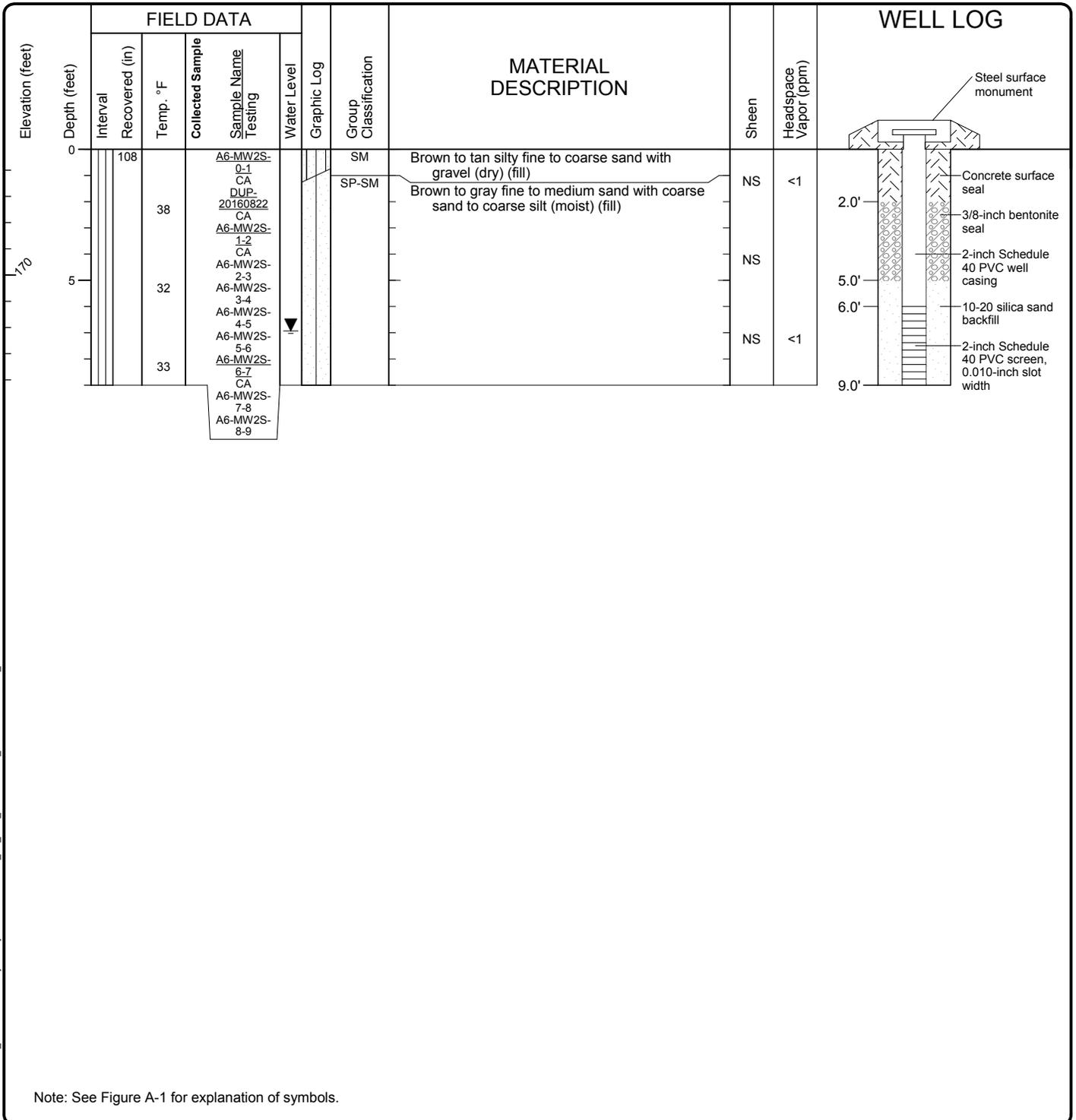
Log of Monitoring Well A6-MW2D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/22/2016	End 8/22/2016	Total Depth (ft)	9	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/22/2016 to a depth of 9 (ft).
Surface Elevation (ft) Vertical Datum	174.8 NGVD29		Top of Casing Elevation (ft)	174.55		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Latitude Longitude	47.24653611 -122.441686		Horizontal Datum	Geographic NAD83		12/27/2016	6.9 167.9
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91							



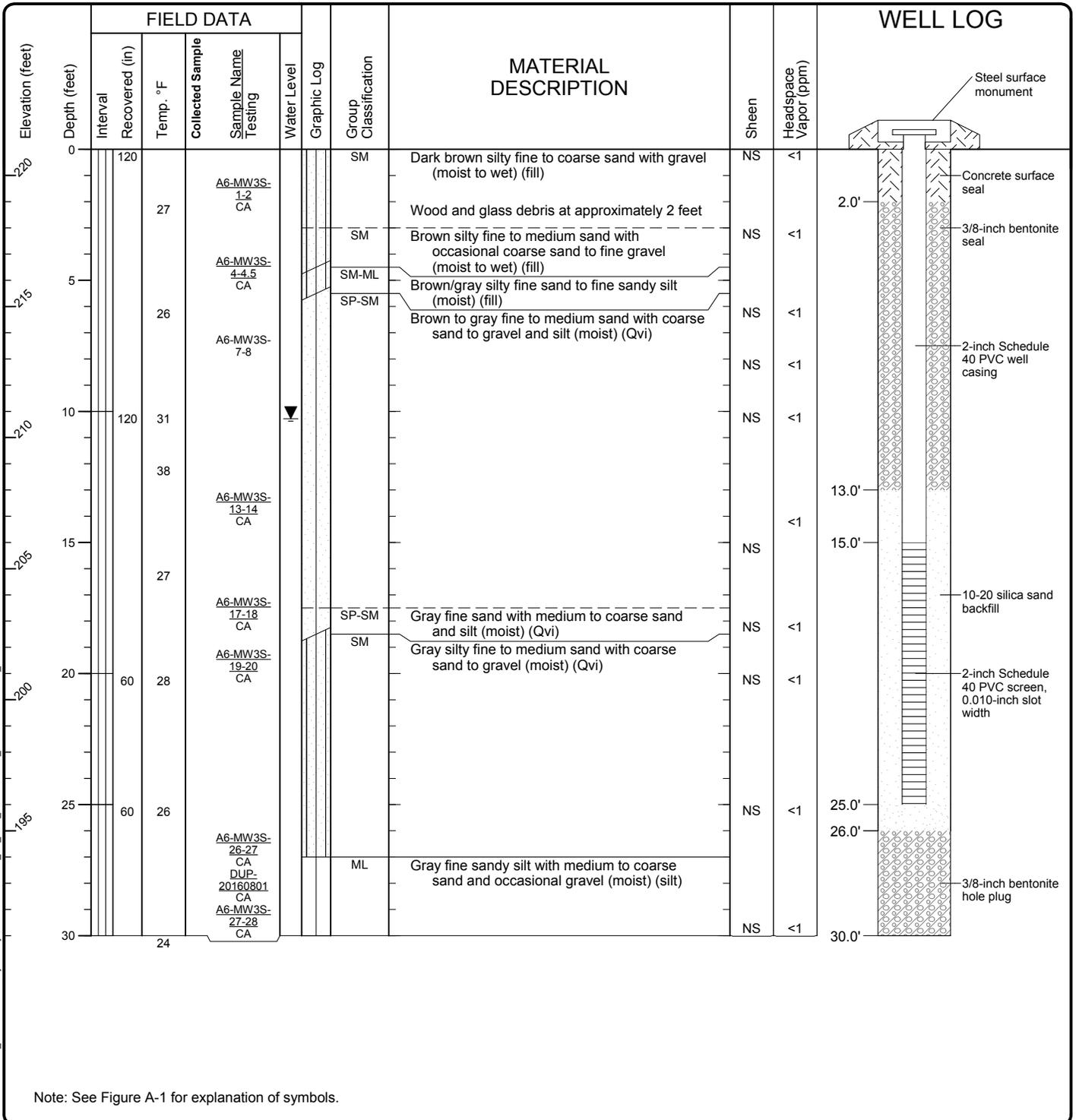
Log of Monitoring Well A6-MW2S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Drilled	Start 8/1/2016	End 8/1/2016	Total Depth (ft)	30	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/1/2016 to a depth of 30 (ft).	
Surface Elevation (ft) Vertical Datum	221 NGVD29			Top of Casing Elevation (ft)	220.66		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Latitude Longitude	47.24634722 -122.442806			Horizontal Datum	Geographic NAD83		12/27/2016	10.3 210.7
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91								



Log of Monitoring Well A6-MW3S

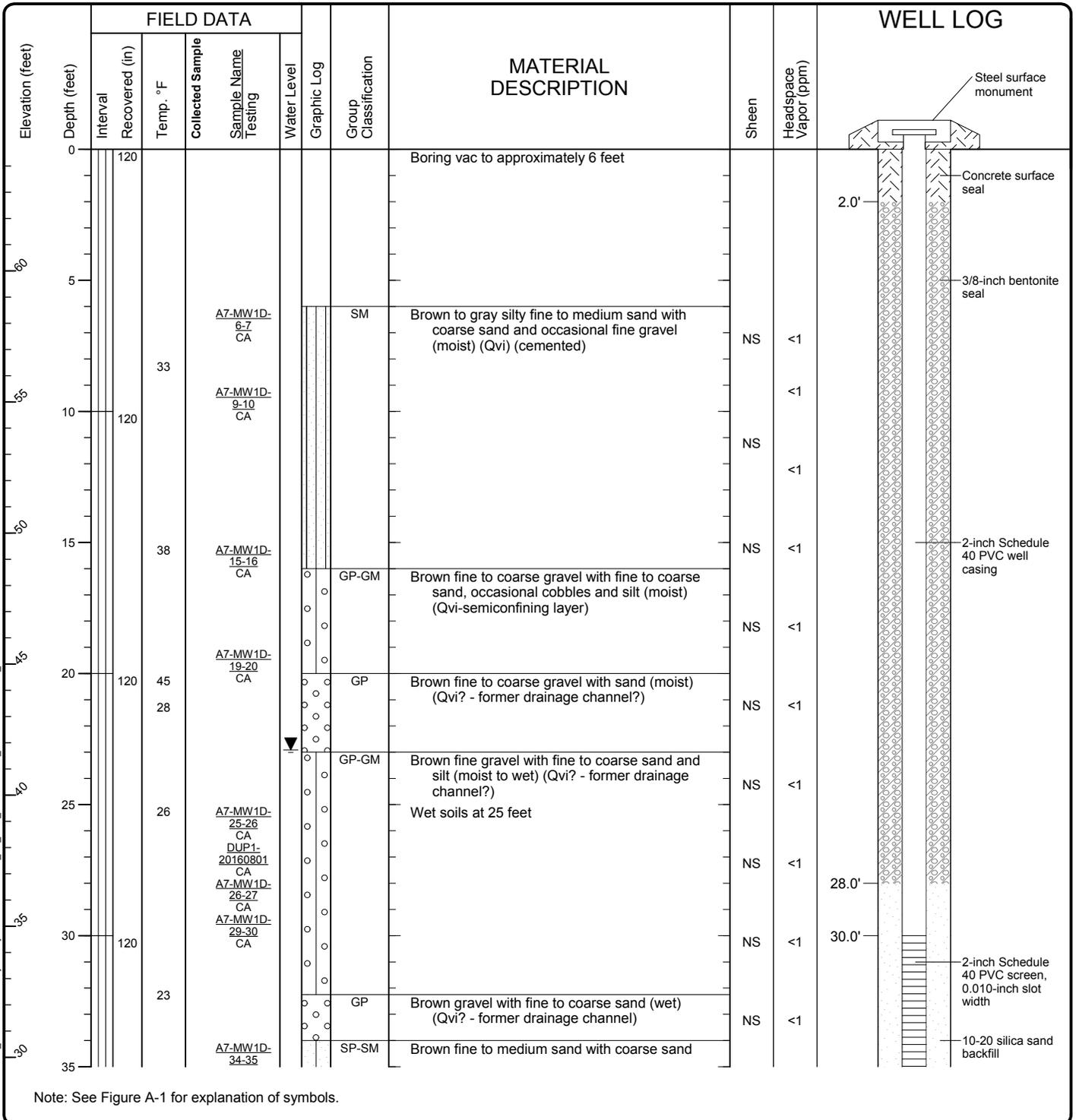


Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/31/2016	End 8/31/2016	Total Depth (ft)	40	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A		Drilling Equipment		Terra Sonic		A 4 (in) well was installed on 8/31/2016 to a depth of 40 (ft).
Surface Elevation (ft)	64.64	Top of Casing Elevation (ft)		64.24		Groundwater Date Measured	12/27/2016
Vertical Datum	NGVD29	Horizontal Datum		Geographic NAD83		Depth to Water (ft)	22.9
Latitude	47.2458	Elevation (ft)		41.7			
Longitude	-122.437747						

Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91



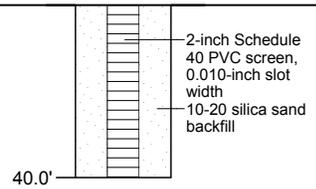
Log of Monitoring Well A7-MW1D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing	Water Level				
35			24		CA					
							SM		NS	<1
							SP-SM		NS	<1
40				A7-MW1D-39-40 CA						
Well was telescoped at base of shallow aquifer per the 2016 RI Work Plan										



Note: See Figure A-1 for explanation of symbols.

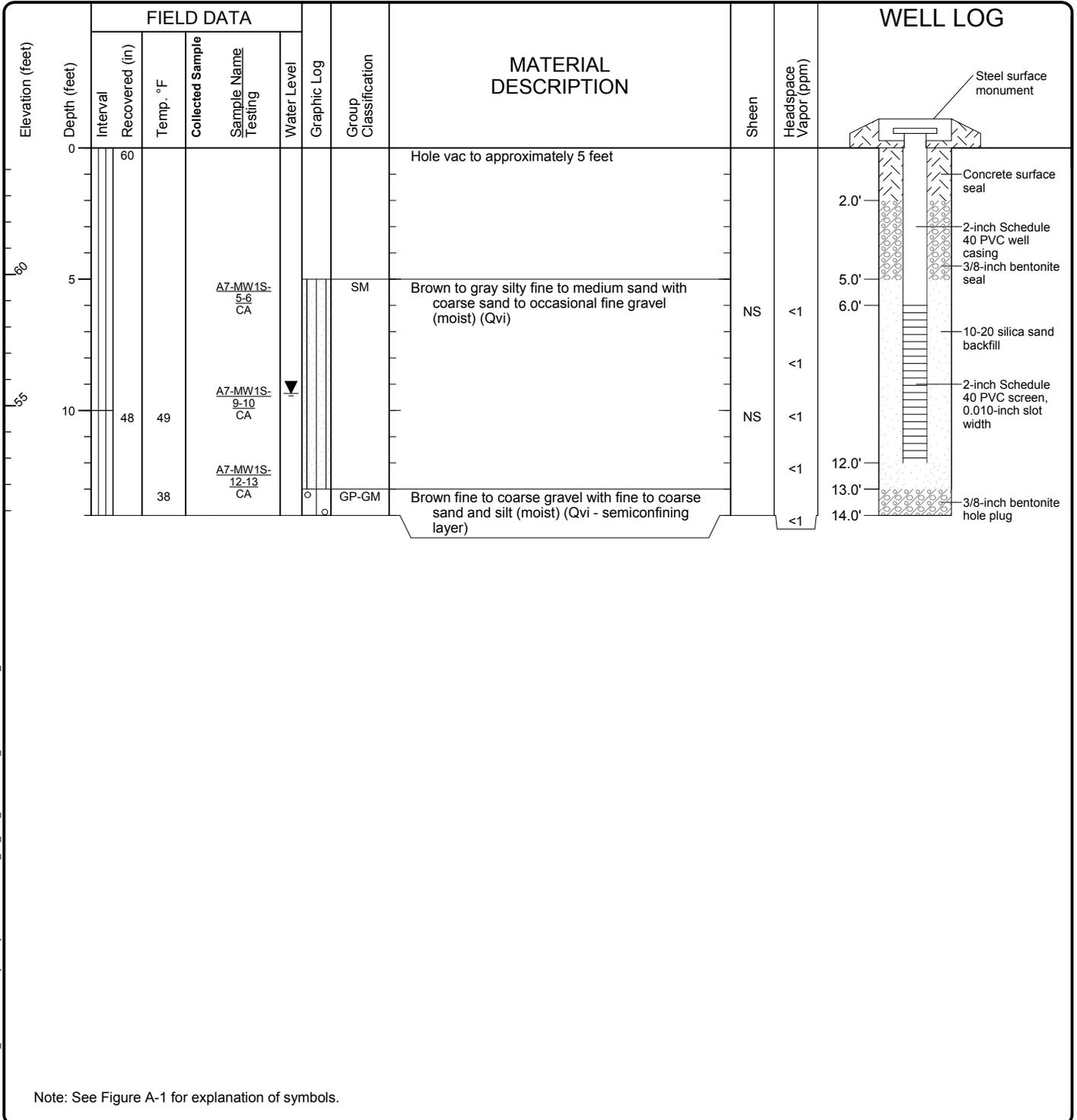
Log of Monitoring Well A7-MW1D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-7
 Sheet 2 of 2

Drilled	<u>Start</u> 9/1/2016	<u>End</u> 9/1/2016	Total Depth (ft)	14	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 9/1/2016 to a depth of 14 (ft).	
Surface Elevation (ft) Vertical Datum	64.82 NGVD29			Top of Casing Elevation (ft)	64.47		<u>Groundwater</u> Date Measured	Depth to Water (ft) Elevation (ft)
Latitude Longitude	47.24580556 -122.437744			Horizontal Datum	Geographic NAD83		12/27/2016	9.4 55.5
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91								



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A7-MW1S

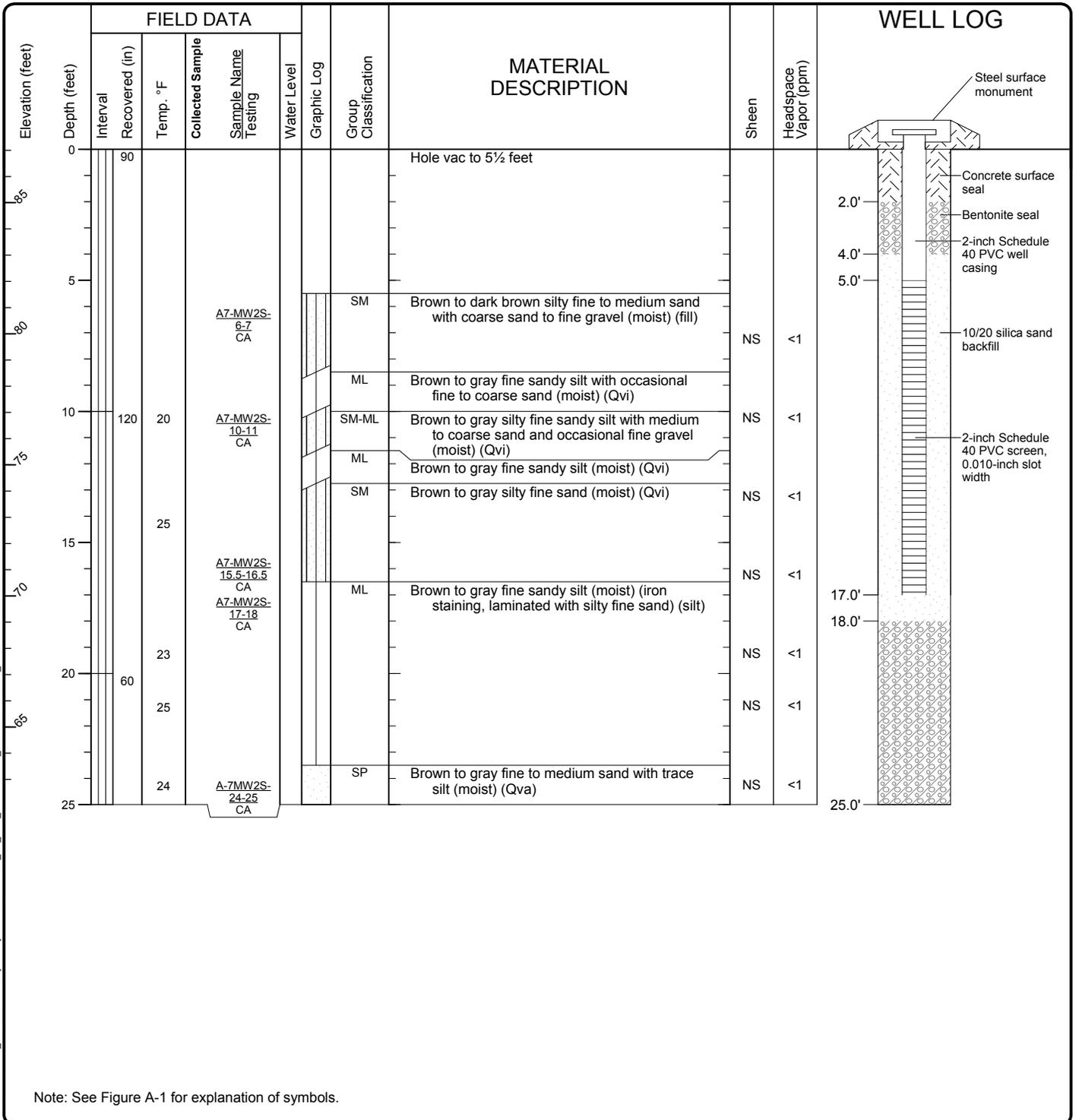


Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-8
 Sheet 1 of 1

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 11/11/2016	End 11/11/2016	Total Depth (ft)	25	Logged By Checked By	TD	Driller	Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic			A 2 (in) well was installed on 11/11/2016 to a depth of 25 (ft).	
Surface Elevation (ft)	87.04	Top of Casing Elevation (ft)	86.79	Groundwater Date Measured			Depth to Water (ft)	Elevation (ft)	
Vertical Datum	NGVD29					Dry			
Latitude	47.24601389	Horizontal Datum	Geographic NAD83						
Longitude	-122.438481								
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91									



Note: See Figure A-1 for explanation of symbols.

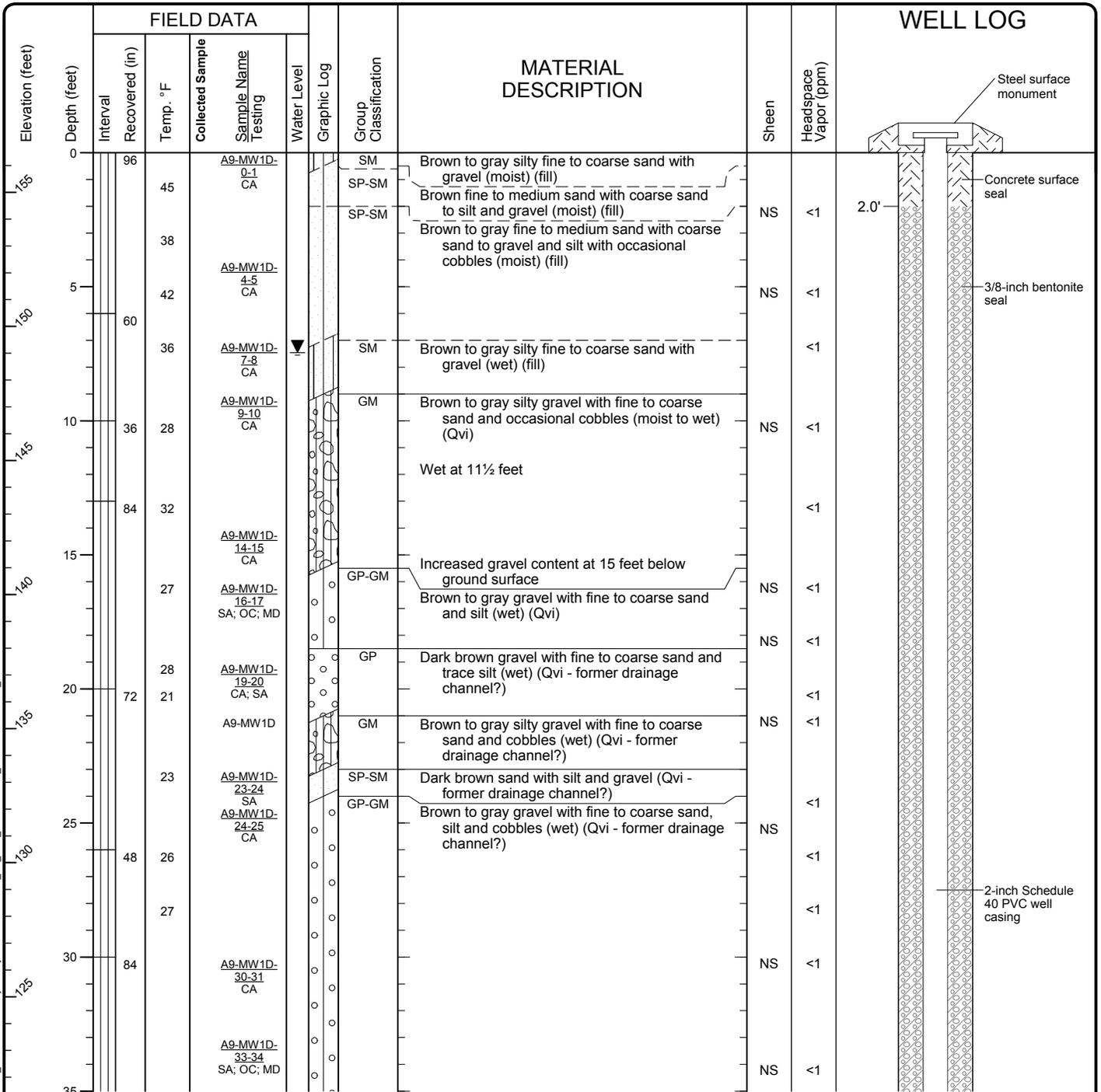
Log of Monitoring Well A7-MW2S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\09\GINT\0183\109000_01.GPJ DBL\Library\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/16/2016	End 8/16/2016	Total Depth (ft)	70	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 4 (in) well was installed on 8/16/2016 to a depth of 70 (ft).
Surface Elevation (ft) Vertical Datum	156.48 NGVD29	Top of Casing Elevation (ft)		156.07		Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
Latitude Longitude	47.24503333 -122.440842	Horizontal Datum		Geographic NAD83		12/27/2016	7.5 149.0
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91							



Note: See Figure A-1 for explanation of symbols.

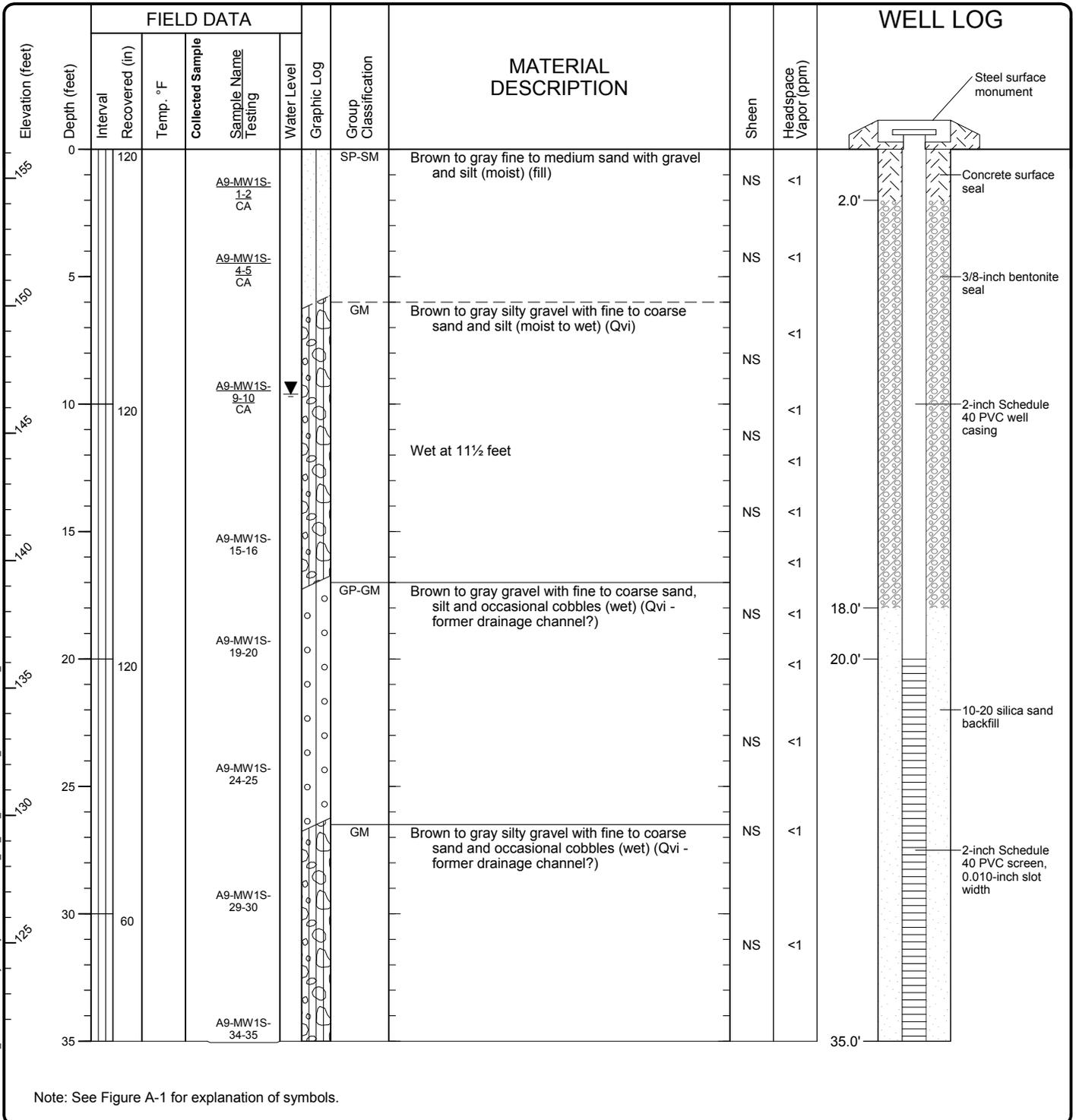
Log of Monitoring Well A9-MW1D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GIEB_ENVIRONMENTAL_WELL

Start Drilled 8/17/2016	End 8/17/2016	Total Depth (ft)	35	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/17/2016 to a depth of 35 (ft).
Surface Elevation (ft) Vertical Datum	156.14 NGVD29	Top of Casing Elevation (ft)	155.82	Groundwater Date Measured	12/27/2016	Depth to Water (ft)	9.6
Latitude Longitude	47.24501111 -122.440833	Horizontal Datum	Geographic NAD83	Elevation (ft)	146.5		
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91							



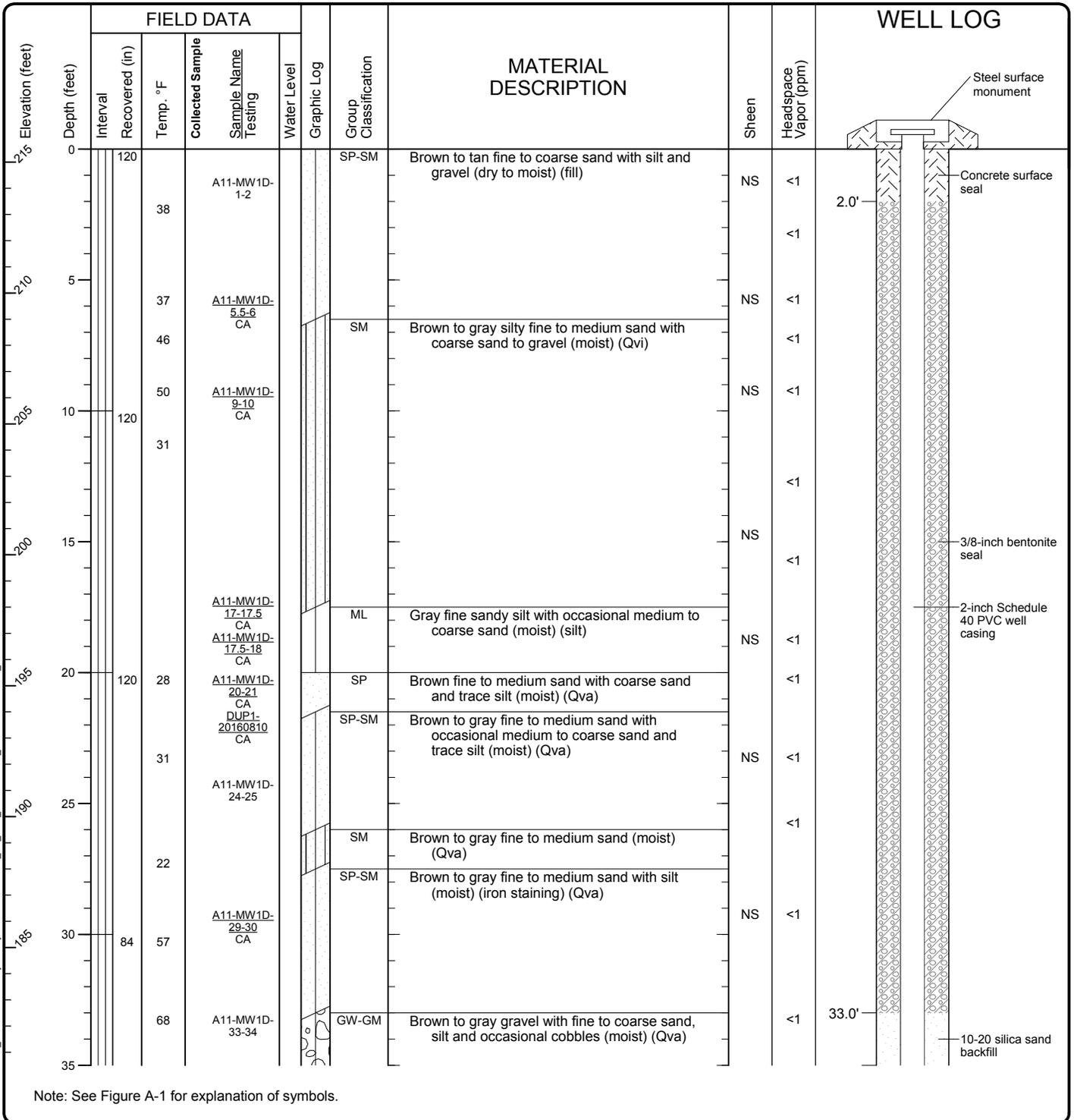
Log of Monitoring Well A9-MW1S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/10/2016	End 8/10/2016	Total Depth (ft)	50	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic	
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/11/2016 to a depth of 50 (ft).	
Surface Elevation (ft) Vertical Datum	215.5 NGVD29		Top of Casing Elevation (ft)	214.96		Groundwater Date Measured		Depth to Water (ft)
Latitude Longitude	47.24326944 -122.442419		Horizontal Datum	Geographic NAD83		12/27/2016	37.5	178.0
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91								



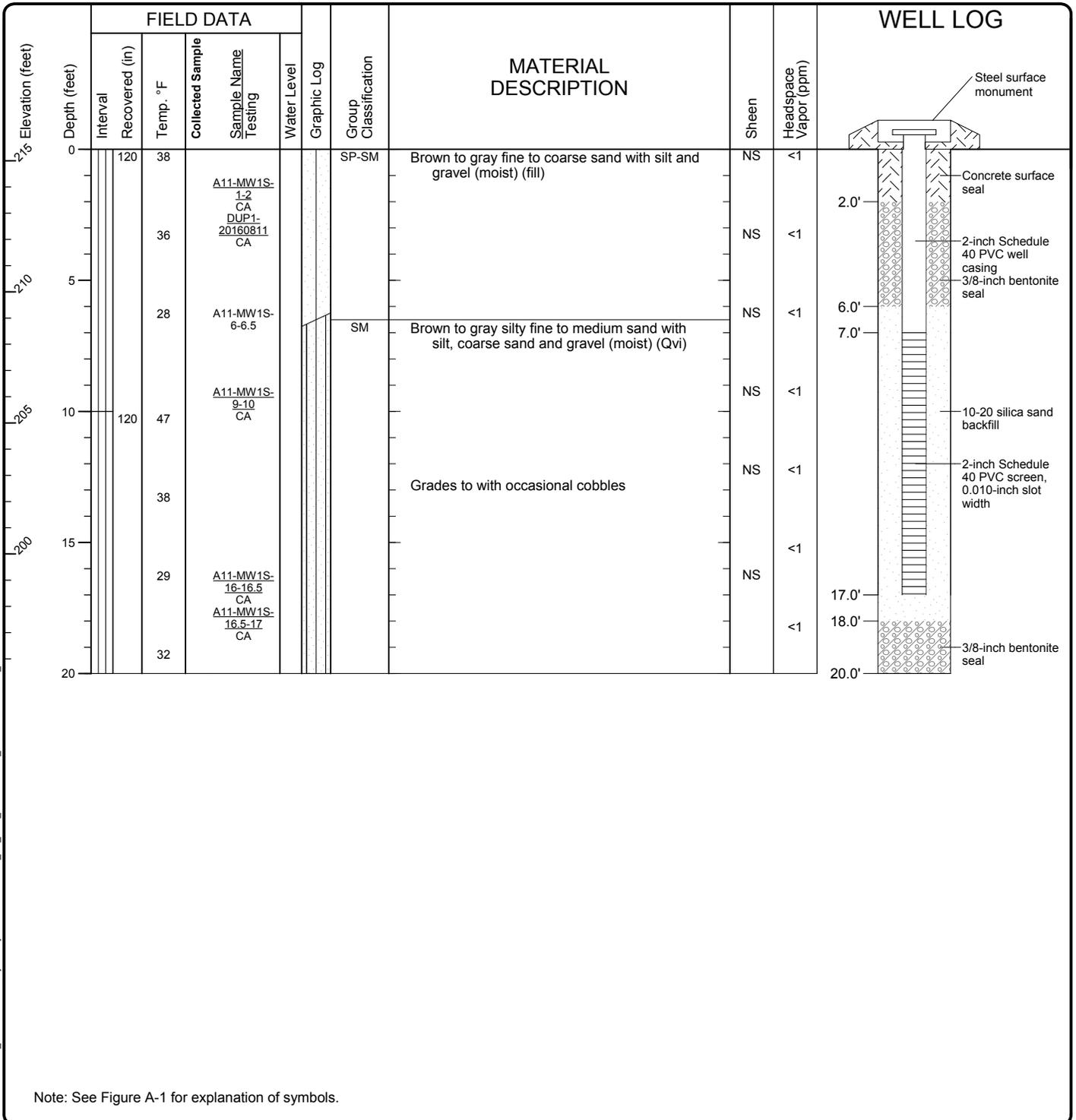
Log of Monitoring Well A11-MW1D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/11/2016	End 8/10/2016	Total Depth (ft) 20	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A		Drilling Equipment	Terra Sonic	
Surface Elevation (ft) Vertical Datum	215.44 NGVD29		Top of Casing Elevation (ft)	215.01	
Latitude Longitude	47.24328333 -122.442422		Horizontal Datum	Geographic NAD83	
Notes:			Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91		



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW1S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEBL_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG	
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing							2-inch Schedule 40 PVC well casing	3/8-inch bentonite seal
285			78		A11-MW2D-36-37 CA		SP	Brown to gray fine to medium sand with occasional coarse sand to fine gravel and trace silt (moist) (Qva)	NS	<1			
			68										
	36		78		A11-MW2D-40-40.5 CA		SM	Gray to brown silty fine sand with occasional medium to coarse sand to fine gravel (dry to moist) (Qva)		<1			
							SP-SM	Brown to gray fine to coarse sand with silt, gravel and occasional cobbles (moist) (Qva)	NS	<1			
			68		A11-MW2D-42-43 CA								
	84				A11-MW2D-43-44 CA		SM	Gray silty fine sand with medium to coarse sand and occasional fine gravel (dry) (Qva)		<1			
			75		A11-MW2D-46-47 CA		SP-SM	Brown to gray fine to coarse sand with gravel and silt (moist) (Qva)		<1			
	120		29							<1			
					A11-MW2D-52-53 CA								
			73						NS	<1			
			68		A11-MW2D-57-58 CA		SP	Brown to gray fine sand with medium to coarse sand and trace silt (moist) (Qva)		<1			
	120		35				SP	Brown fine to medium sand with trace silt (moist) (Qva)	NS	<1			
					A11-MW2D-62-63								
			38							<1			
									NS	<1			
			70		A11-MW2D-66-66.5 A11-MW2D-67-68		SP-MS	Brown to gray fine to coarse sand with gravel, trace silt and occasional cobbles (moist) (Qva)		<1			
									NS	<1			
	96		45							<1			
					A11-MW2D-72-73 CA		GP-GM	Brown to gray gravel with silt, fine to coarse sand and trace cobbles (moist) (Qva)		<1			
									NS	<1			
			47							<1			
										<1			
			68		A11-MW2D-77-78 CA			Wet soils at approximately 78 feet	NS	<1	78.0'		

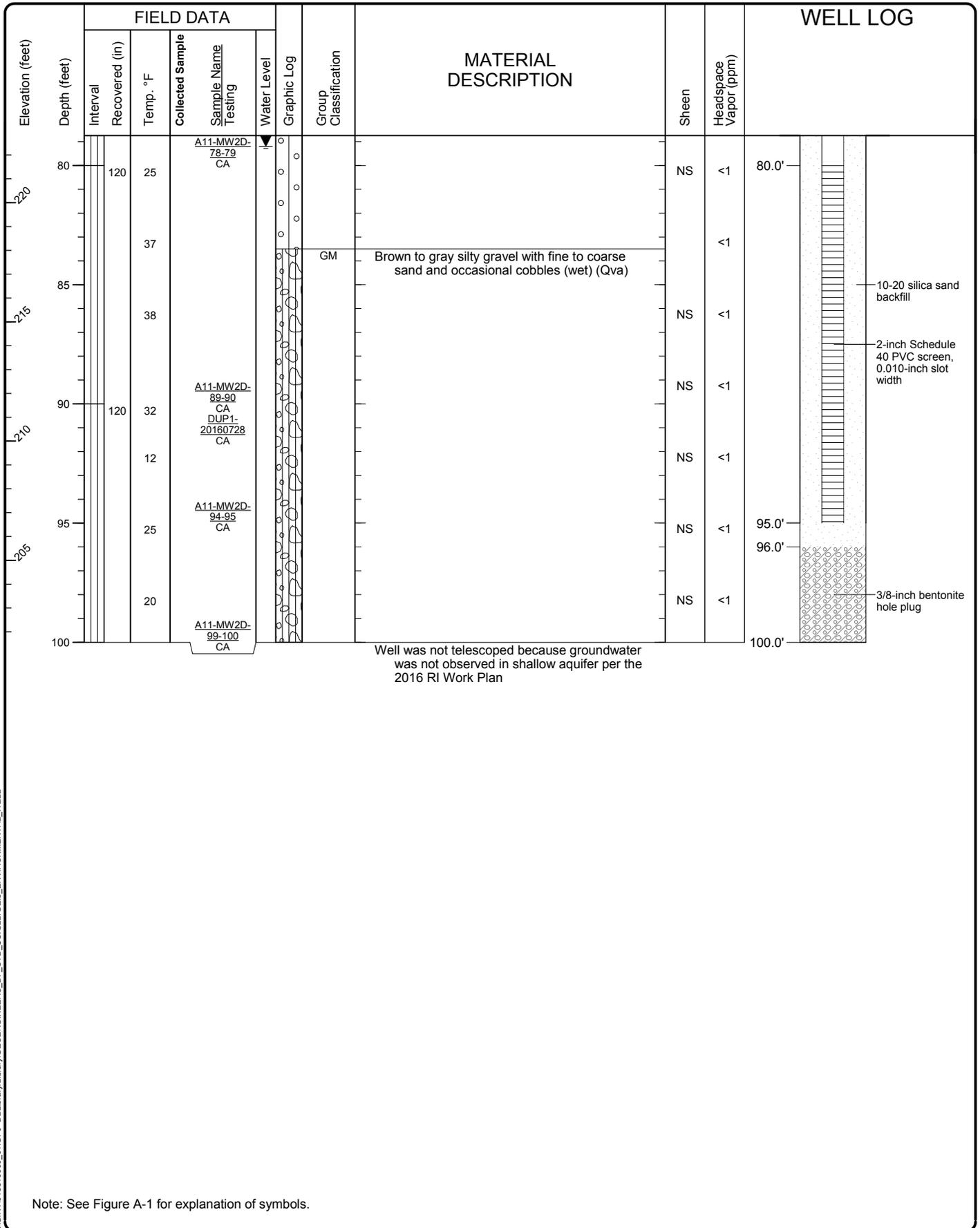
Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW2D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

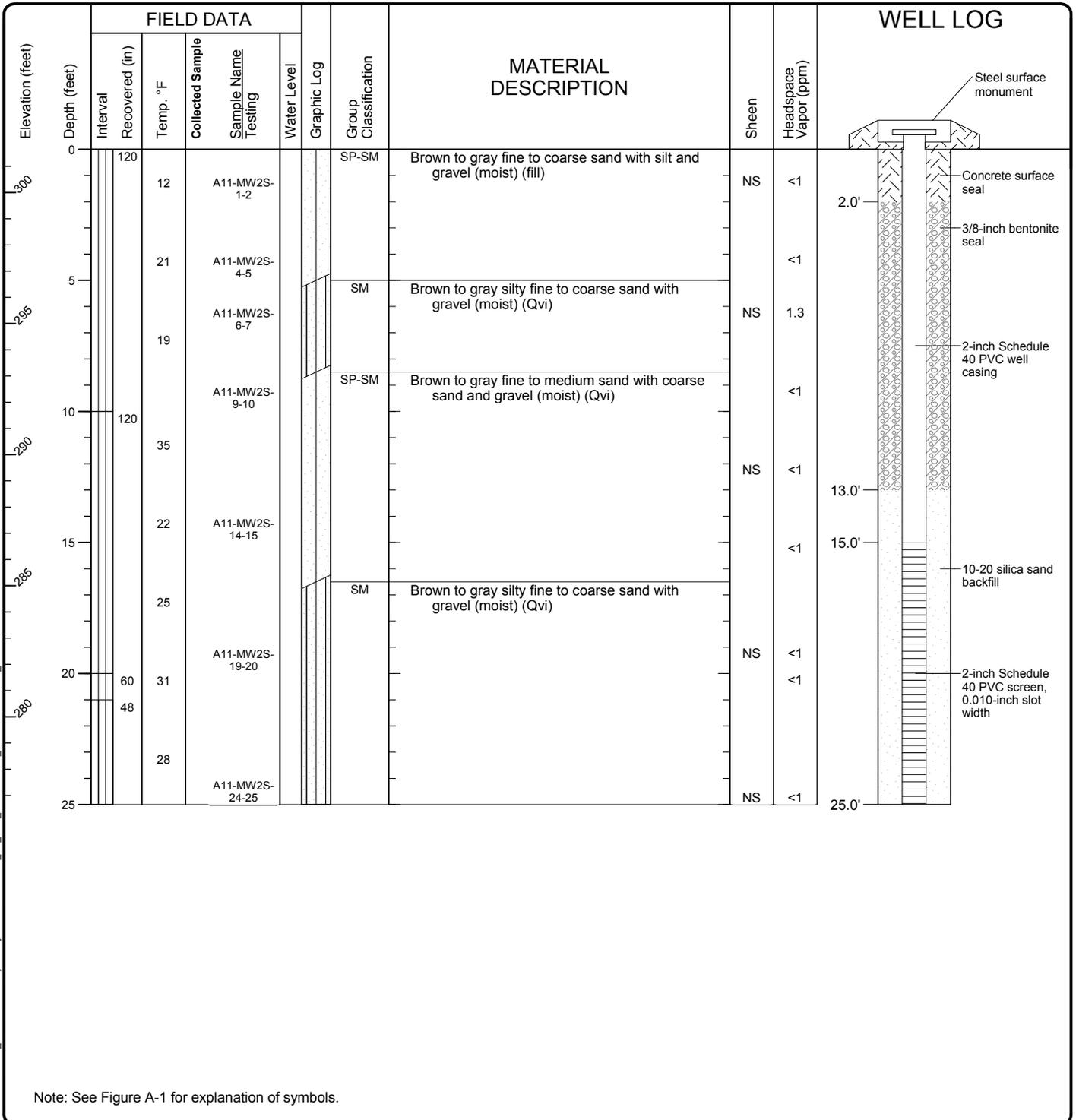
Log of Monitoring Well A11-MW2D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-14
 Sheet 3 of 3

Start Drilled 7/29/2016	End 7/29/2016	Total Depth (ft) 25	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A		Drilling Equipment	Terra Sonic	
Surface Elevation (ft) Vertical Datum	301.65 NGVD29		Top of Casing Elevation (ft)	301.20	
Latitude Longitude	47.24248333 -122.445022		Horizontal Datum	Geographic NAD83	
Notes:			Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91		



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW2S

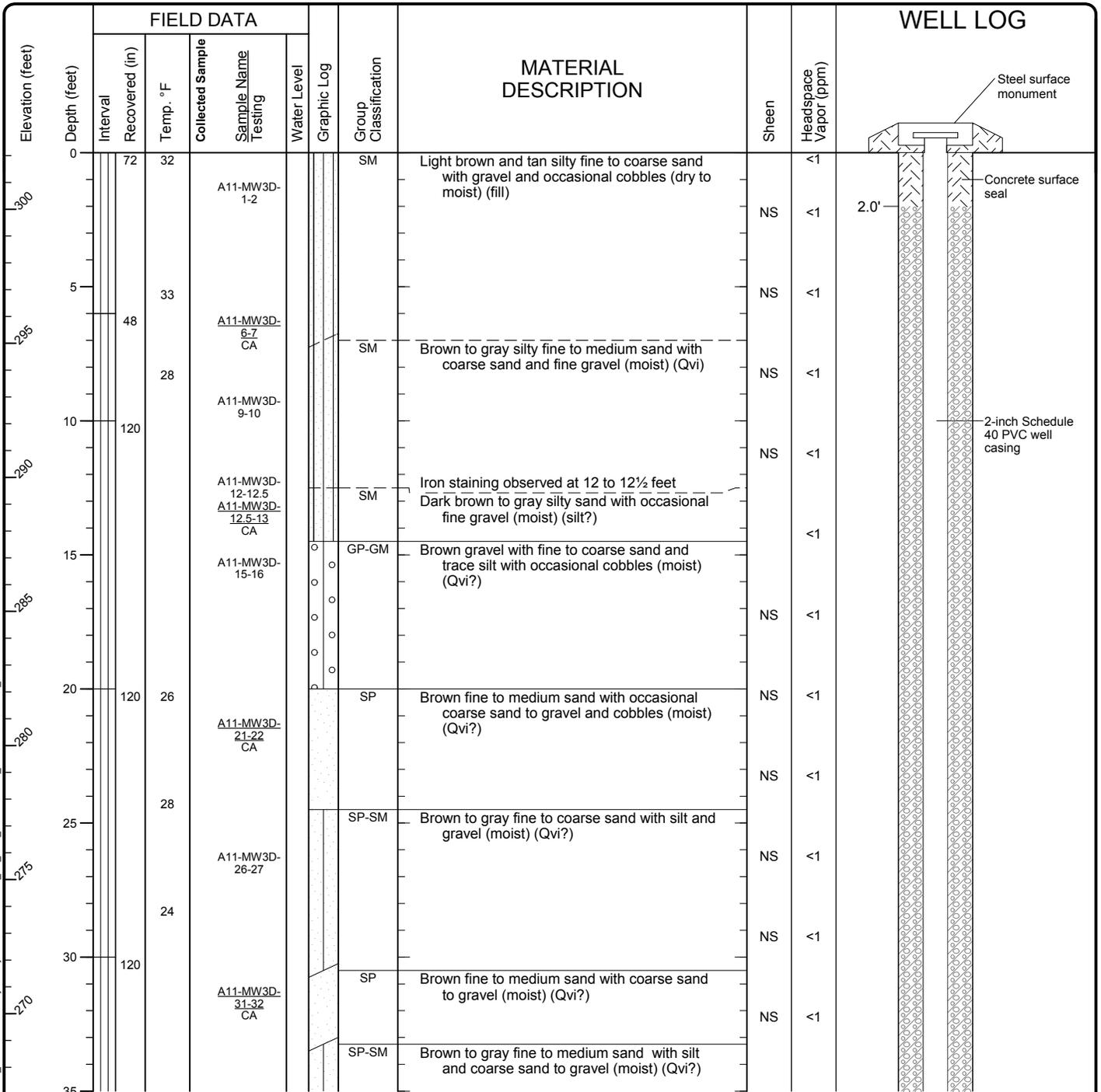


Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-15
 Sheet 1 of 1

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/2/2016	End 8/3/2016	Total Depth (ft) 100	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data N/A	Drilling Equipment Terra Sonic		A 2 (in) well was installed on 8/3/2016 to a depth of 100 (ft).		
Surface Elevation (ft) Vertical Datum 302.11 NGVD29	Top of Casing Elevation (ft) 301.66		Groundwater Date Measured 12/27/2016		
Latitude 47.24400278 Longitude -122.445361	Horizontal Datum Geographic NAD83		Depth to Water (ft) 82.2		Elevation (ft) 219.9
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91					



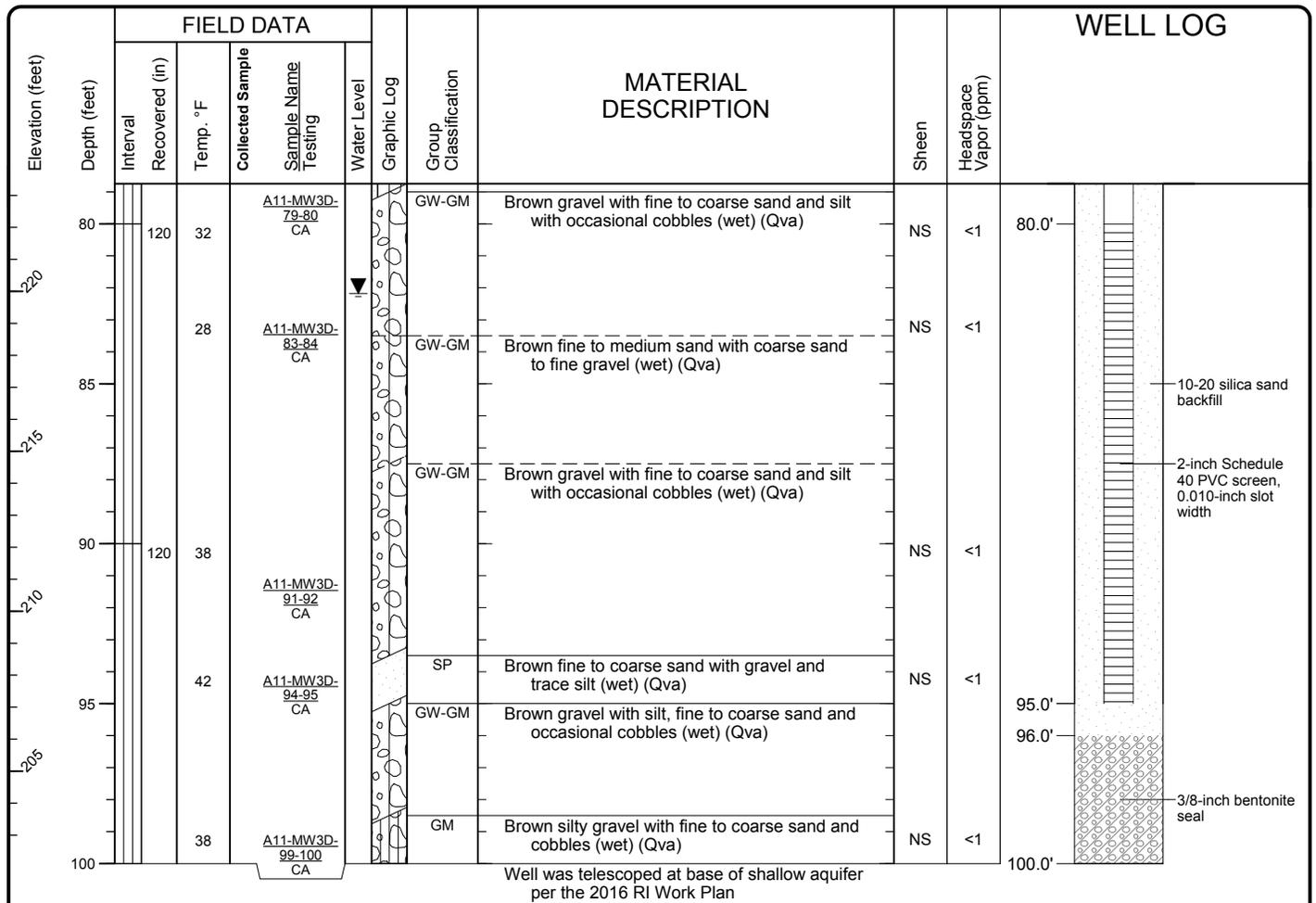
Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW3D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

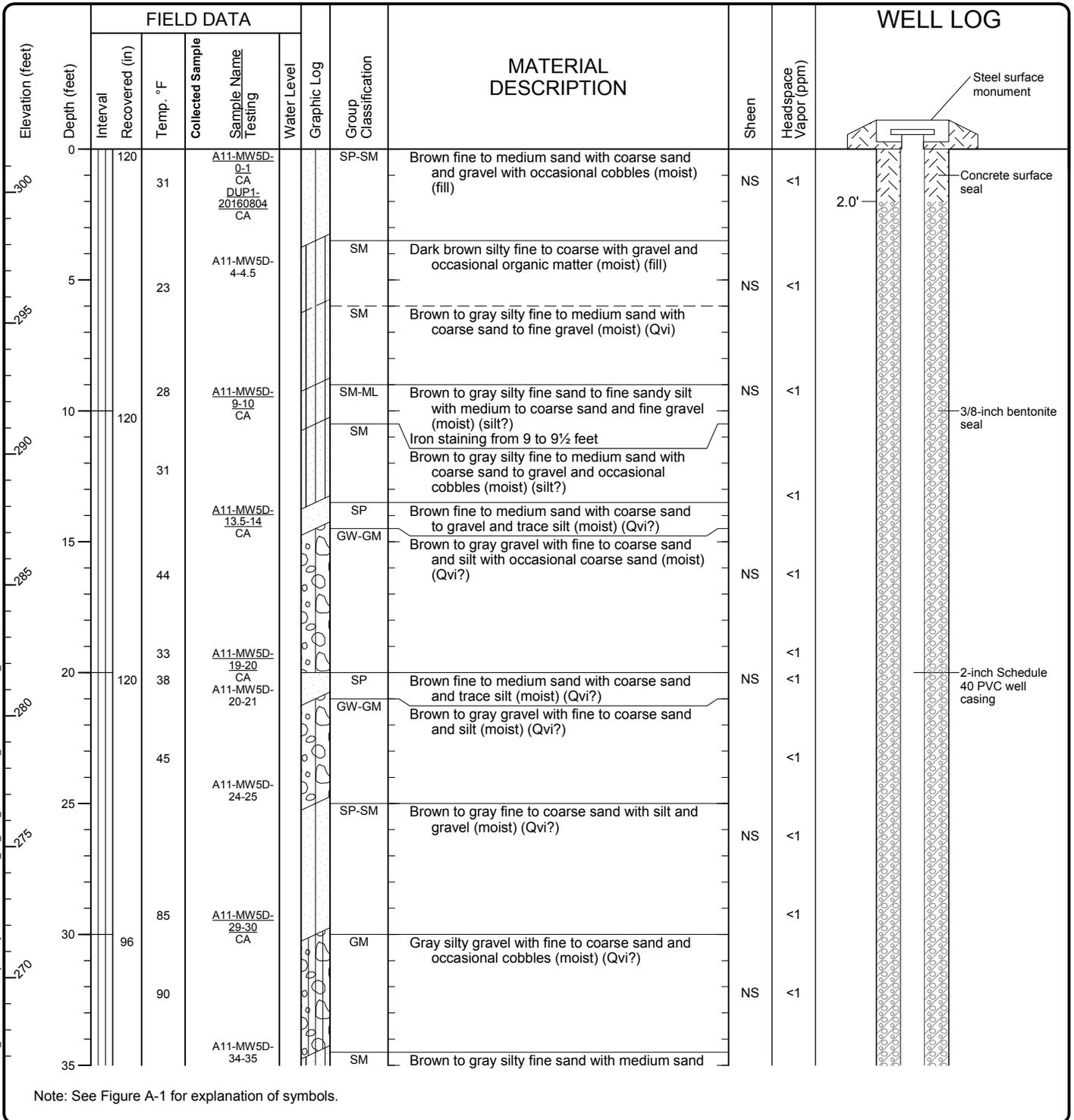
Log of Monitoring Well A11-MW3D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-16
 Sheet 3 of 3

Start Drilled 8/4/2016	End 8/5/2016	Total Depth (ft)	95	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic	
Surface Elevation (ft) Vertical Datum	301.65 NGVD29			Top of Casing Elevation (ft)	301.08	
Latitude Longitude	47.24499444 -122.445586			Horizontal Datum	Geographic NAD83	
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91				Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
				12/27/2016	77.3	224.4



Log of Monitoring Well A11-MW5D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG	
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing				Water Level	Graphic Log
220	80	120	23		A11-MW5D-79-80 CA	GW-GM	Brown to gray gravel with fine to coarse sand and silt with occasional cobbles (wet) (Qva)	NS	<1	
215	85		16		A11-MW5D-86-86.5 CA	ML	Brown and gray fine sandy silt with occasional organic matter (Qva)	NS	<1	
210	90	60	25		A11-MW5D-86.5-87 CA	GW-GM	Brown to gray gravel with fine to coarse sand and silt with occasional cobbles (wet) (Qva)	NS	<1	
	95		22		A11-MW5D-94-95 CA				<1	

Well was not telescoped because groundwater was not observed in shallow aquifer per the 2016 RI Work Plan

Note: See Figure A-1 for explanation of symbols.

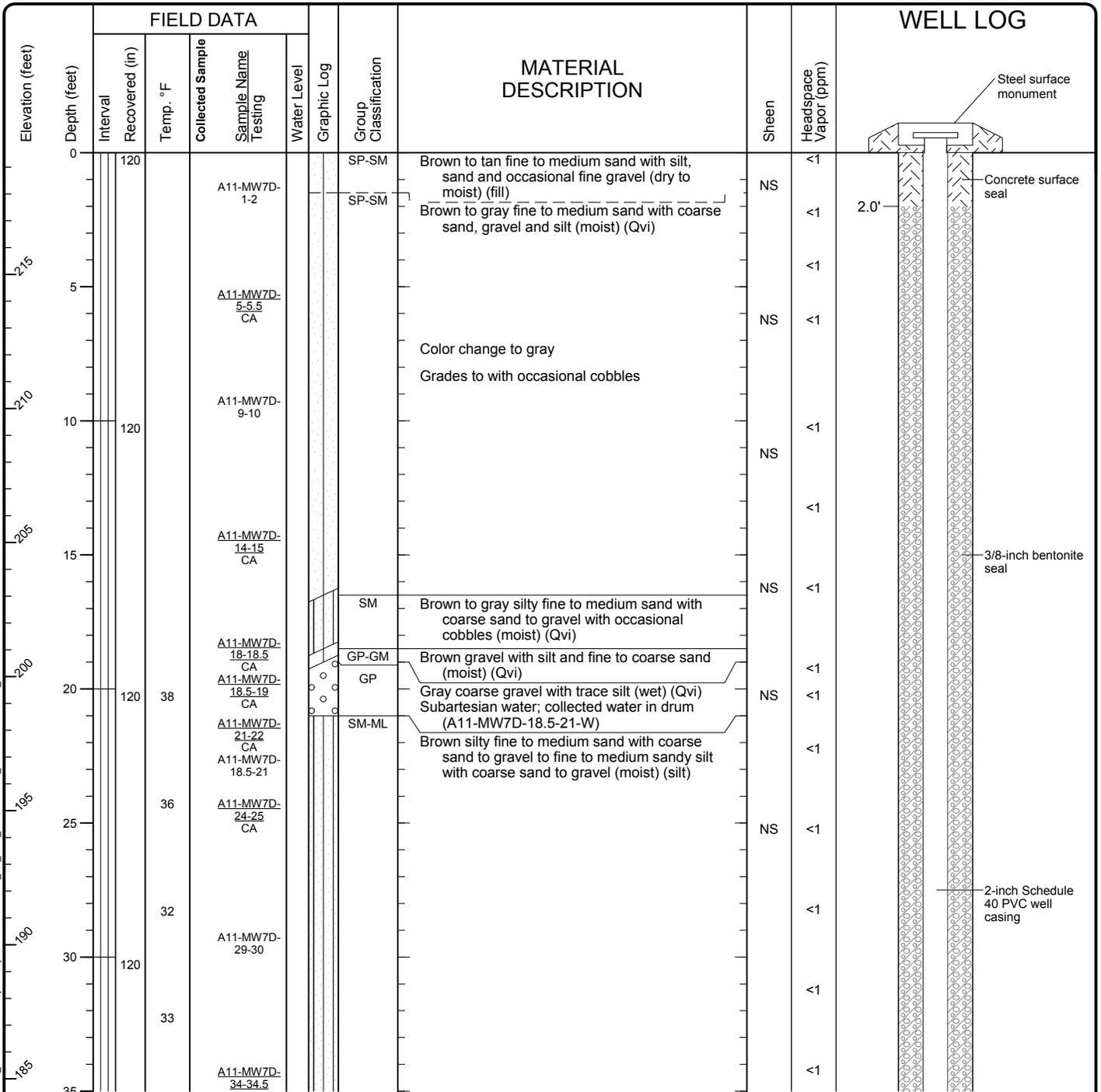
Log of Monitoring Well A11-MW5D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-17
Sheet 3 of 3

Start Drilled 8/11/2016	End	Total Depth (ft) 70	Logged By Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data N/A	Drilling Equipment Terra Sonic		DOE Well I.D.: BJX 280 A 2 (in) well was installed on 8/12/2016 to a depth of 70 (ft).		
Surface Elevation (ft) Vertical Datum	219.54 NGVD29	Top of Casing Elevation (ft) 219.19		Groundwater Date Measured 12/27/2016	
Latitude Longitude	47.24569444 -122.442967	Horizontal Datum Geographic NAD83		Depth to Water (ft) 53.6	Elevation (ft) 165.9
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91					



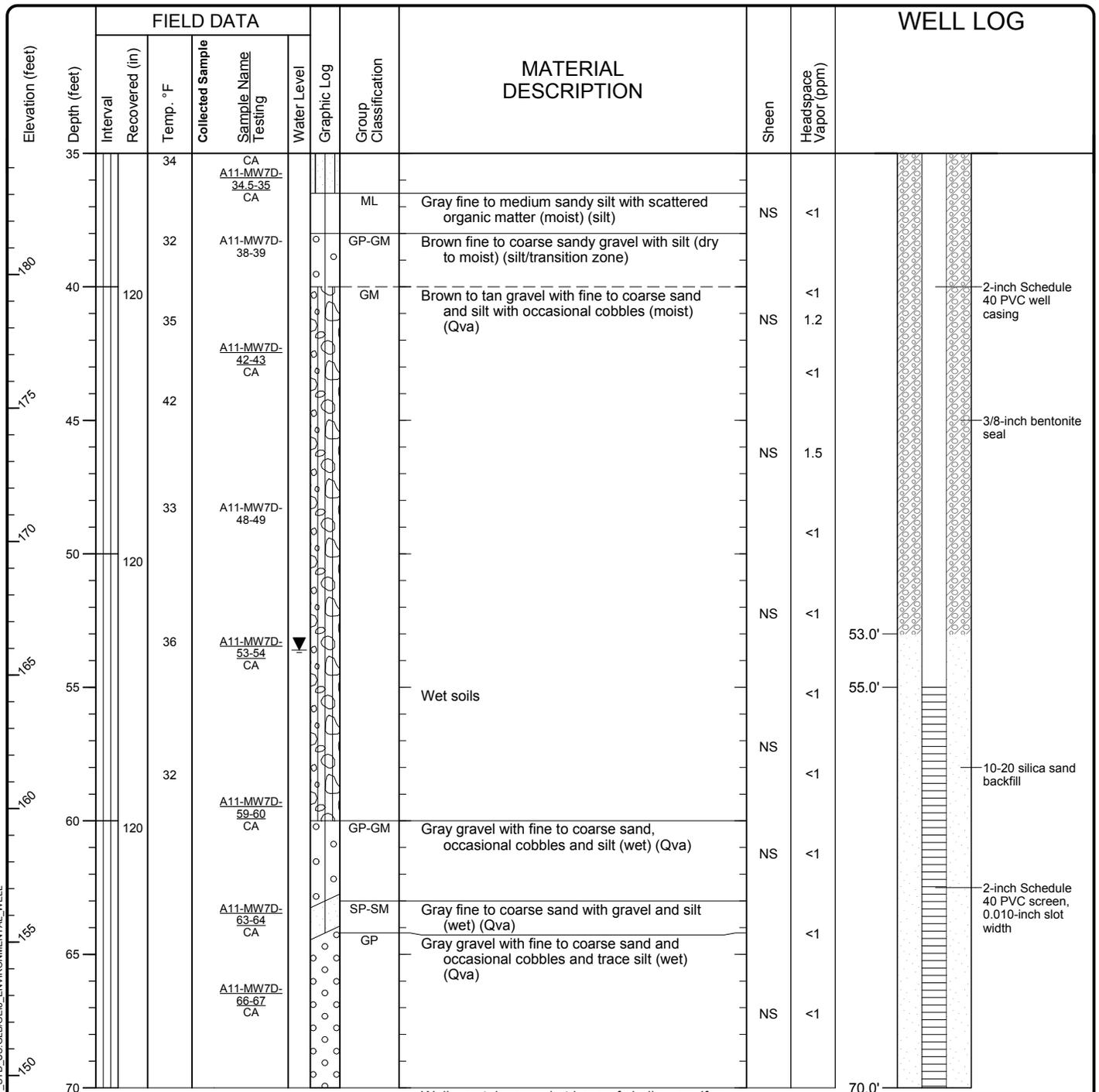
Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW7D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL



Well was telescoped at base of shallow aquifer per the 2016 RI Work Plan

Note: See Figure A-1 for explanation of symbols.

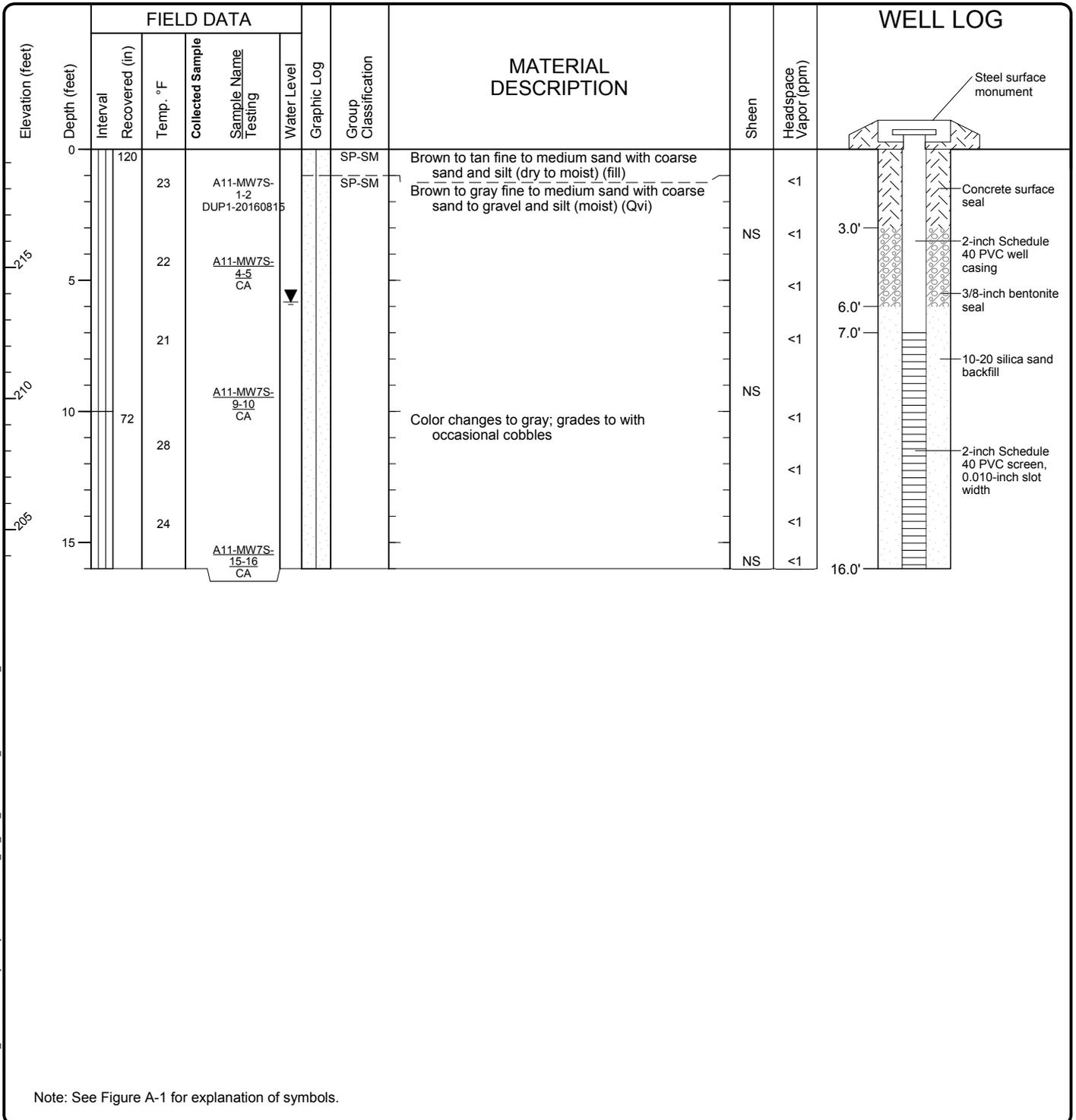
Log of Monitoring Well A11-MW7D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/15/2016	End 8/15/2016	Total Depth (ft)	16	Logged By Checked By	JLD TD	Driller	Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/15/2016 to a depth of 16 (ft).		
Surface Elevation (ft) Vertical Datum	219.51 NGVD29			Top of Casing Elevation (ft)	219.13		Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
Latitude Longitude	47.24568056 -122.442964			Horizontal Datum	Geographic NAD83		12/27/2016	5.8	213.7
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91									



Note: See Figure A-1 for explanation of symbols.

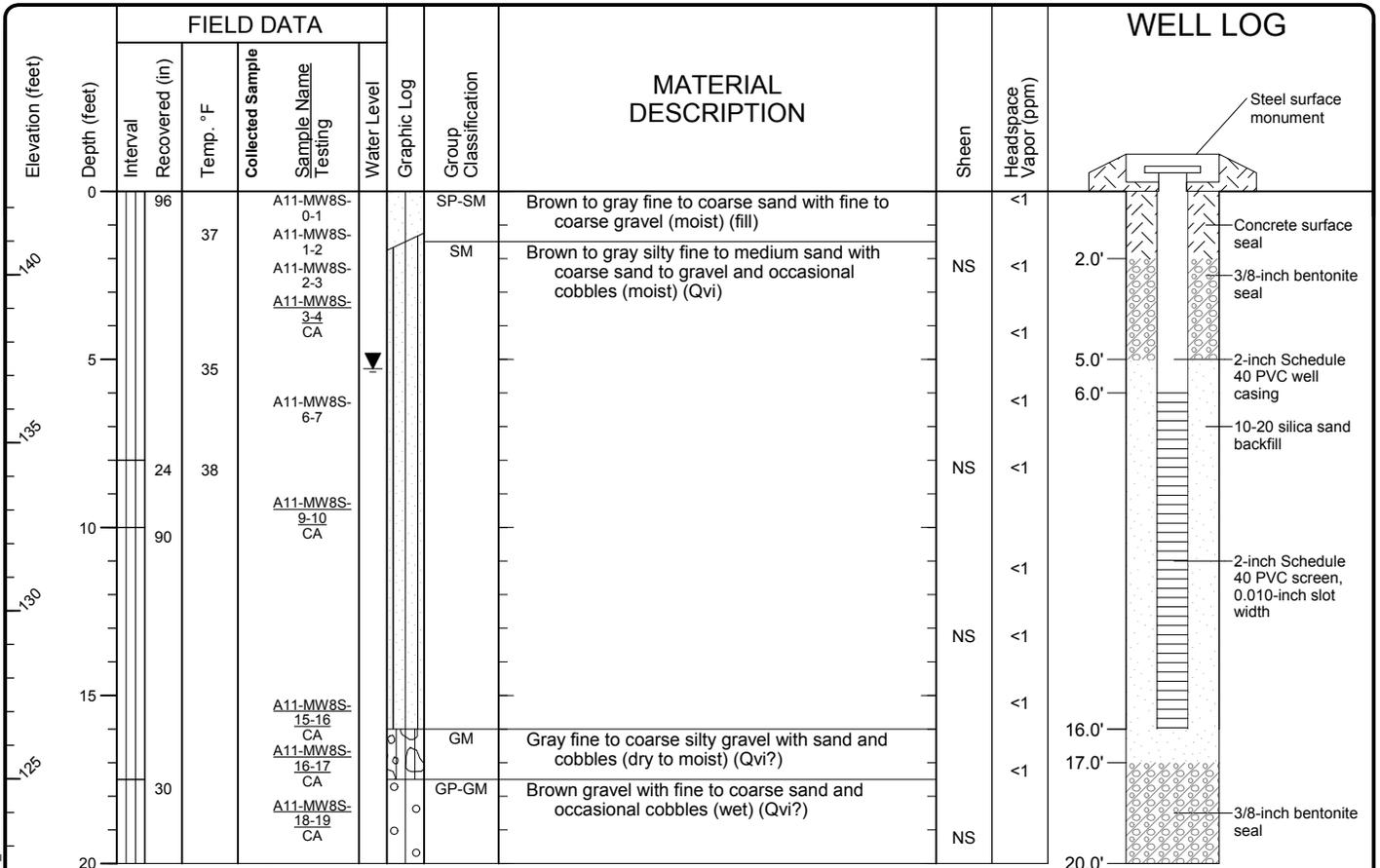
Log of Monitoring Well A11-MW7S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/23/2016	End 8/23/2016	Total Depth (ft)	20	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A		Drilling Equipment Terra Sonic		A 2 (in) well was installed on 8/23/2016 to a depth of 20 (ft).	
Surface Elevation (ft) Vertical Datum	142.48 NGVD29	Top of Casing Elevation (ft)		142.22	Groundwater Date Measured 12/27/2016	
Latitude Longitude	47.24458611 -122.440286	Horizontal Datum		Geographic NAD83	Depth to Water (ft) 5.3	Elevation (ft) 137.2
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91						



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW8S



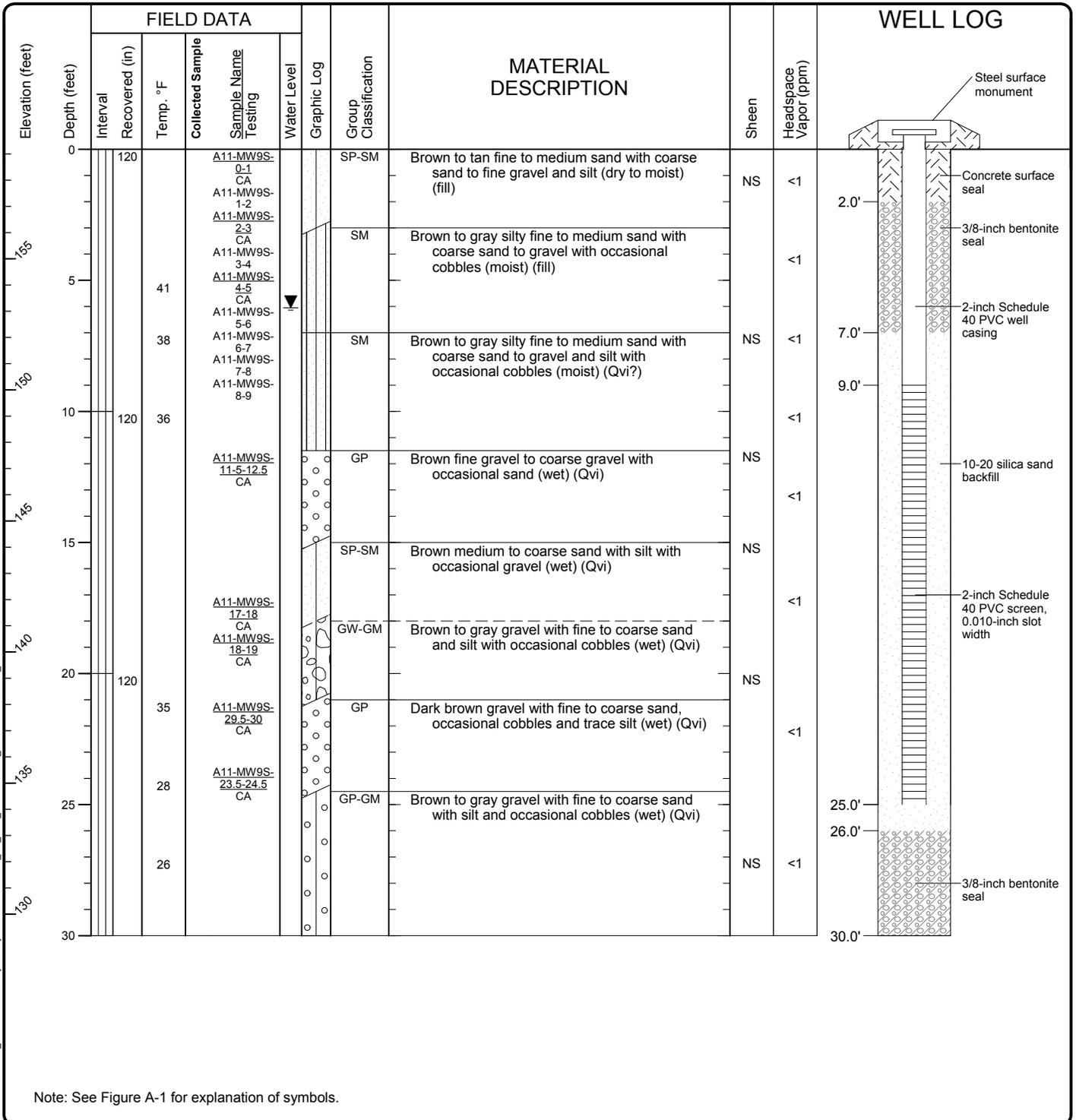
Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-21
 Sheet 1 of 1

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEBL_ENVIRONMENTAL_WELL

Start Drilled 8/15/2016	End 8/15/2016	Total Depth (ft)	30	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/15/2016 to a depth of 30 (ft).
Surface Elevation (ft) Vertical Datum	159.18 NGVD29	Top of Casing Elevation (ft)	158.89	Groundwater Date Measured	12/27/2016	Depth to Water (ft)	6.1
Latitude Longitude	47.24547778 -122.440858	Horizontal Datum	Geographic NAD83	Elevation (ft)	153.1		

Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91



Note: See Figure A-1 for explanation of symbols.

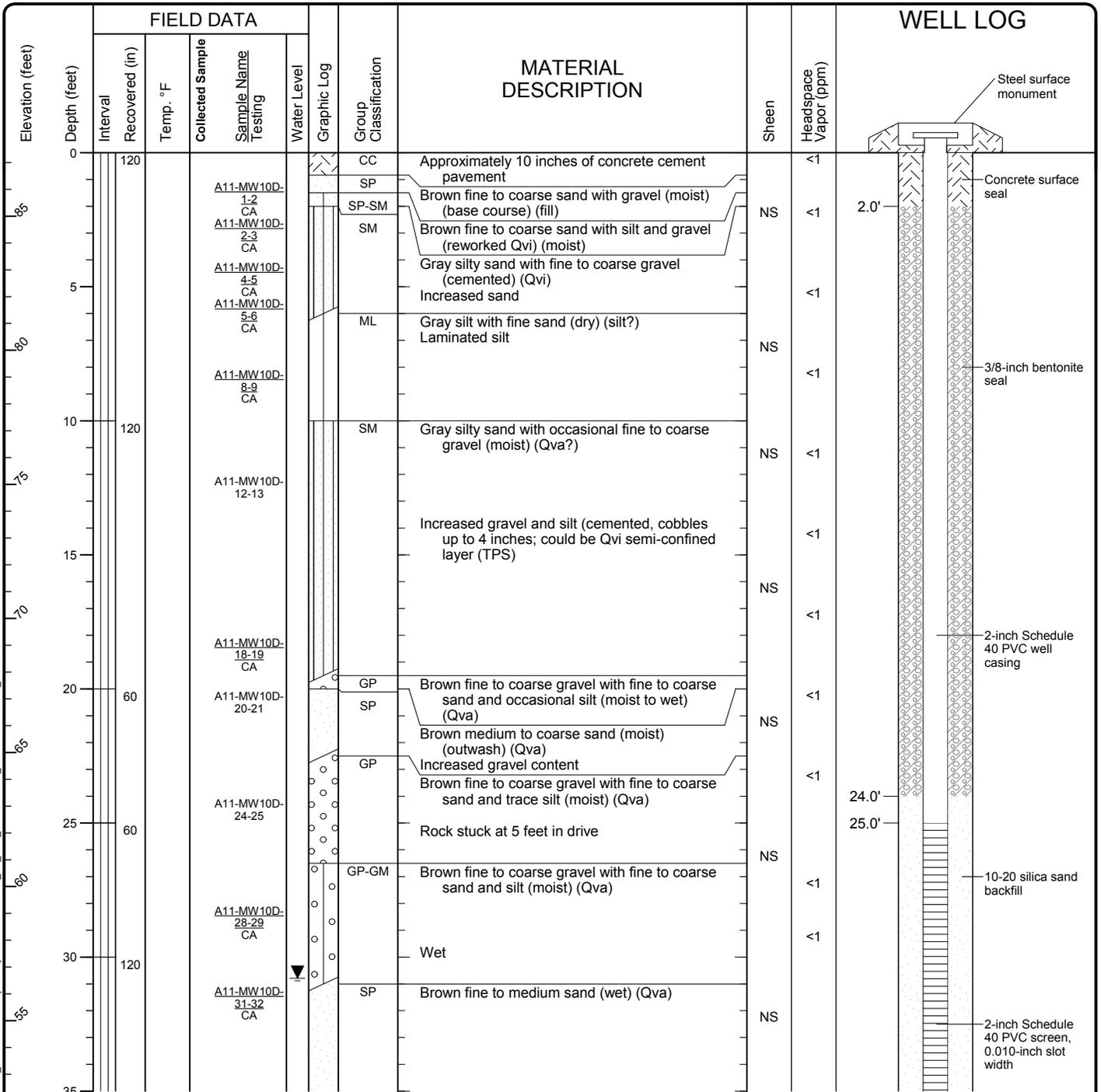
Log of Monitoring Well A11-MW9S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/26/2016	End	Total Depth (ft) 40	Logged By TD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A	Drilling Equipment	Terra Sonic		DOE Well I.D.: BJX 293 A 2 (in) well was installed on 8/26/2016 to a depth of 40 (ft).
Surface Elevation (ft) Vertical Datum	87.37 NGVD29	Top of Casing Elevation (ft)	86.97		Groundwater Date Measured
Latitude Longitude	47.2465 -122.438939	Horizontal Datum	Geographic NAD83		Depth to Water (ft) 30.8 Elevation (ft) 56.6
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91					



Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW10D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\00183\09\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing	Water Level				
35				A11-MW10D-35-36 CA			SP			
40				A11-MW10D-39-40 CA				NS	<1	
<p>Well was telescoped at base of shallow aquifer per the 2016 RI Work Plan</p>										

Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW10D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Start Drilled 8/26/2016	End	Total Depth (ft) 6	Logged By TD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A	Drilling Equipment	Terra Sonic		DOE Well I.D.: BJX 294 A 2 (in) well was installed on 8/26/2016 to a depth of 6 (ft).
Surface Elevation (ft) Vertical Datum	87.64 NGVD29	Top of Casing Elevation (ft)	87.37		<u>Groundwater</u> Date Measured
Latitude Longitude	47.24650278 -122.438914	Horizontal Datum	Geographic NAD83		Depth to Water (ft) Elevation (ft)
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91					

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG	
	Depth (feet)	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing	Water Level					Graphic Log
0	72						CC	Concrete			
				A11-MW10S-1-2 CA			SP	Gray silty sand with fine to coarse gravel (cemented) (Qvi)	NS		<1
				A11-MW10S-2-3					NS		<1
5				A11-MW10S-3-4				Cored through 6 inches of granite	NS		<1

Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW10S

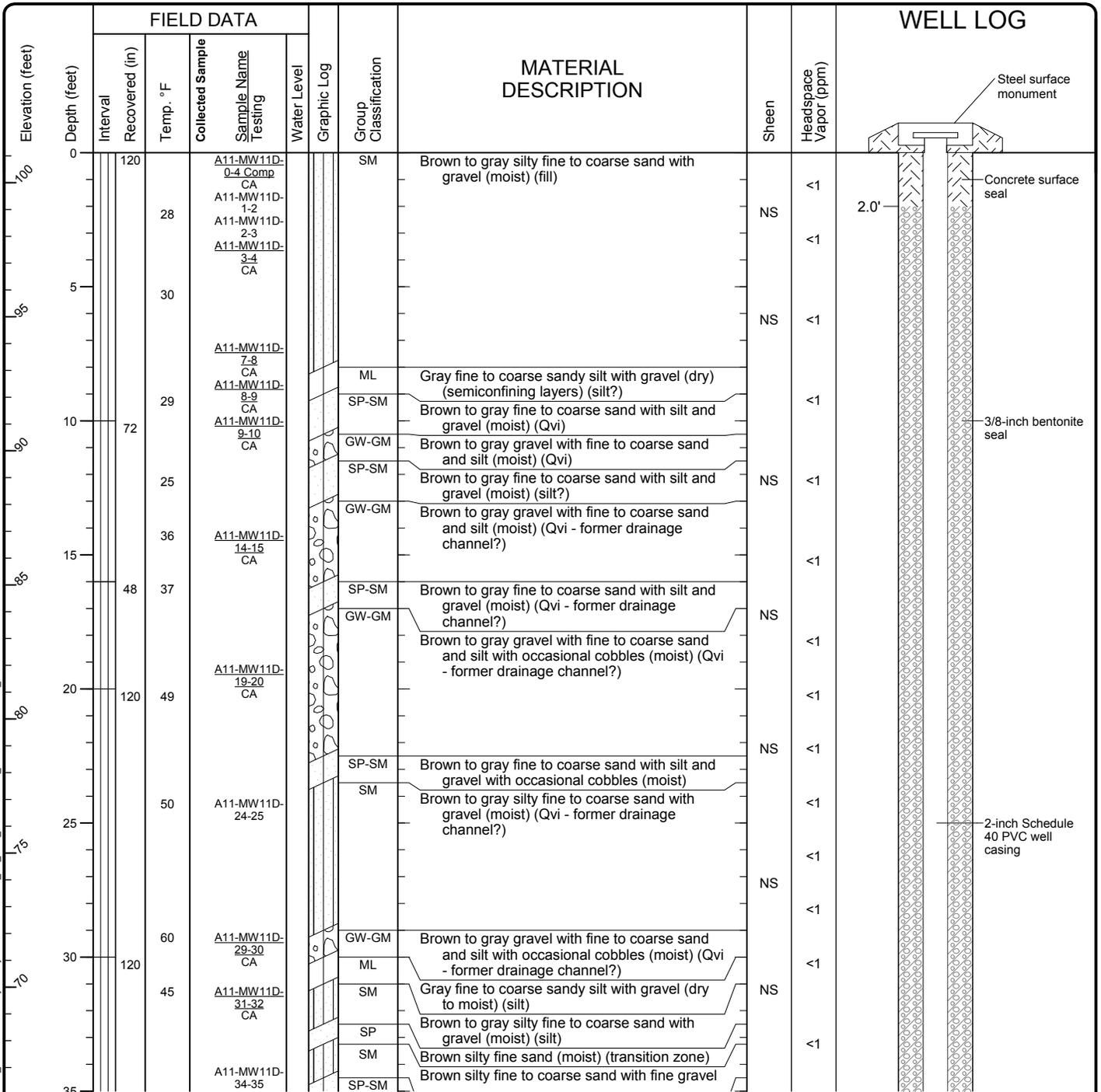


Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/24/2016	End 8/24/2016	Total Depth (ft)	60	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method	Sonic	
Hammer Data	N/A			Drilling Equipment	Terra Sonic		A 2 (in) well was installed on 8/25/2016 to a depth of 60 (ft).	
Surface Elevation (ft) Vertical Datum	101.12 NGVD29		Top of Casing Elevation (ft)	100.92		Groundwater Date Measured		Depth to Water (ft)
Latitude Longitude	47.24504167 -122.439117		Horizontal Datum	Geographic NAD83		12/27/2016	45.3	55.9

Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91



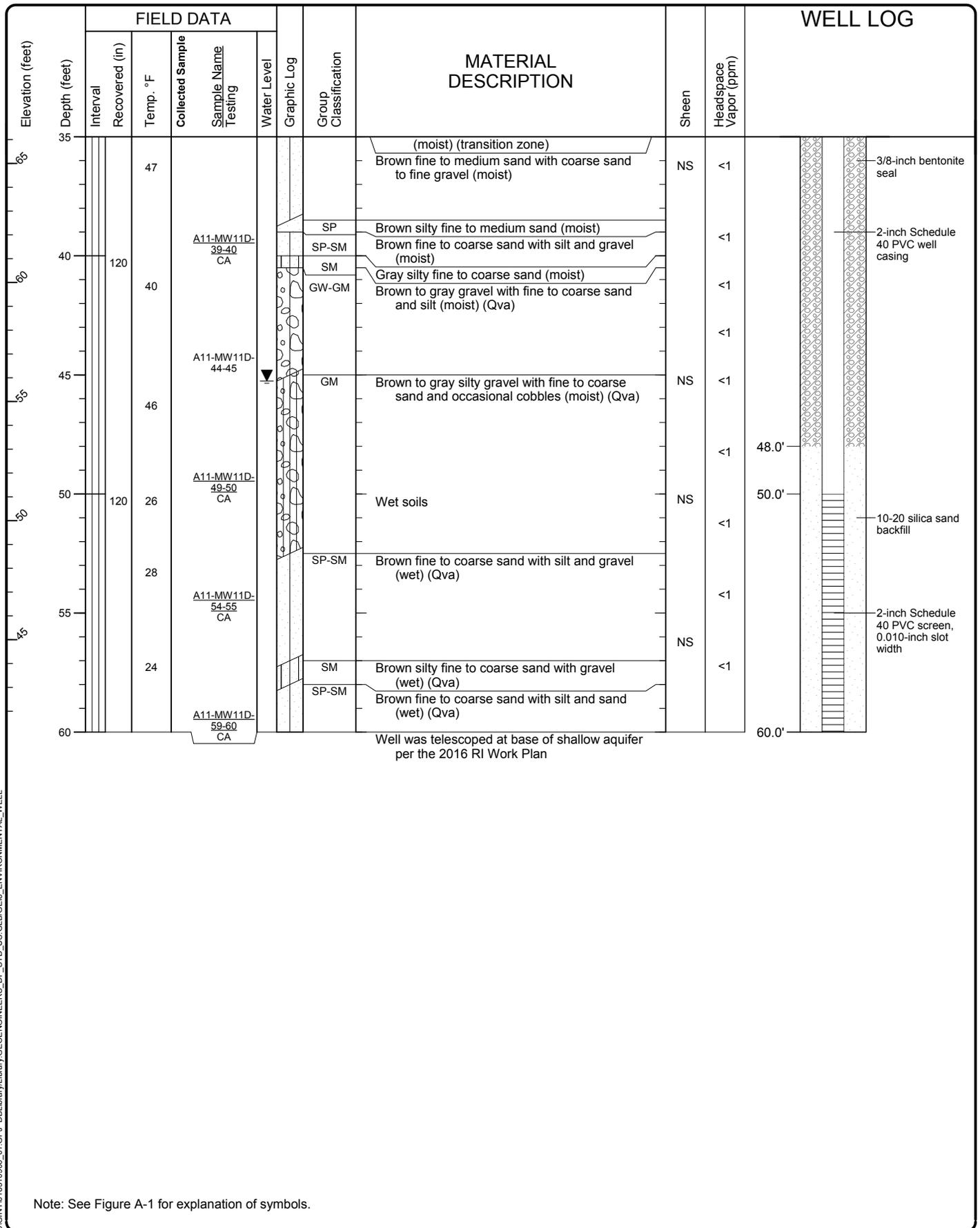
Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW11D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL



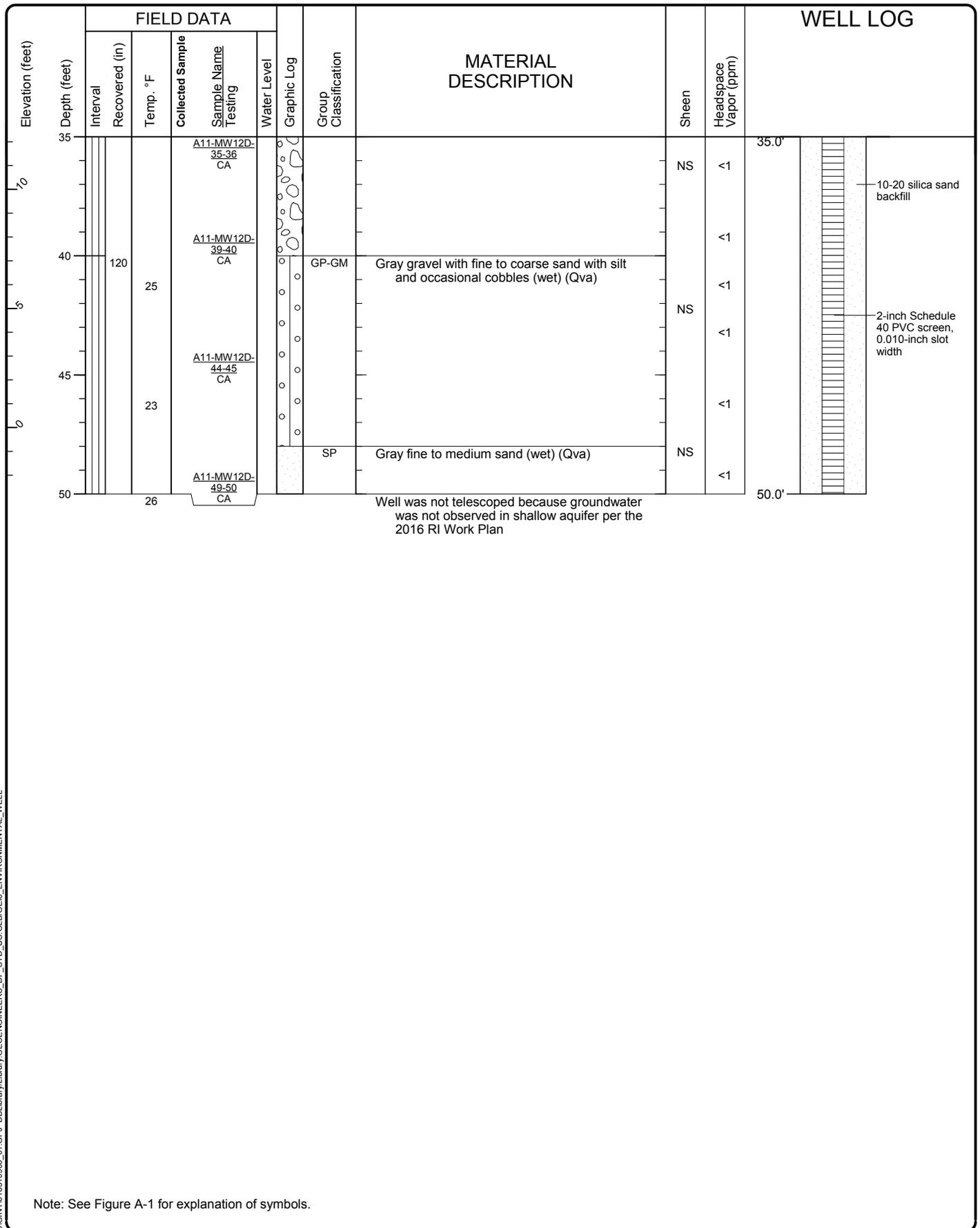
Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well A11-MW11D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL



Note: See Figure A-1 for explanation of symbols.

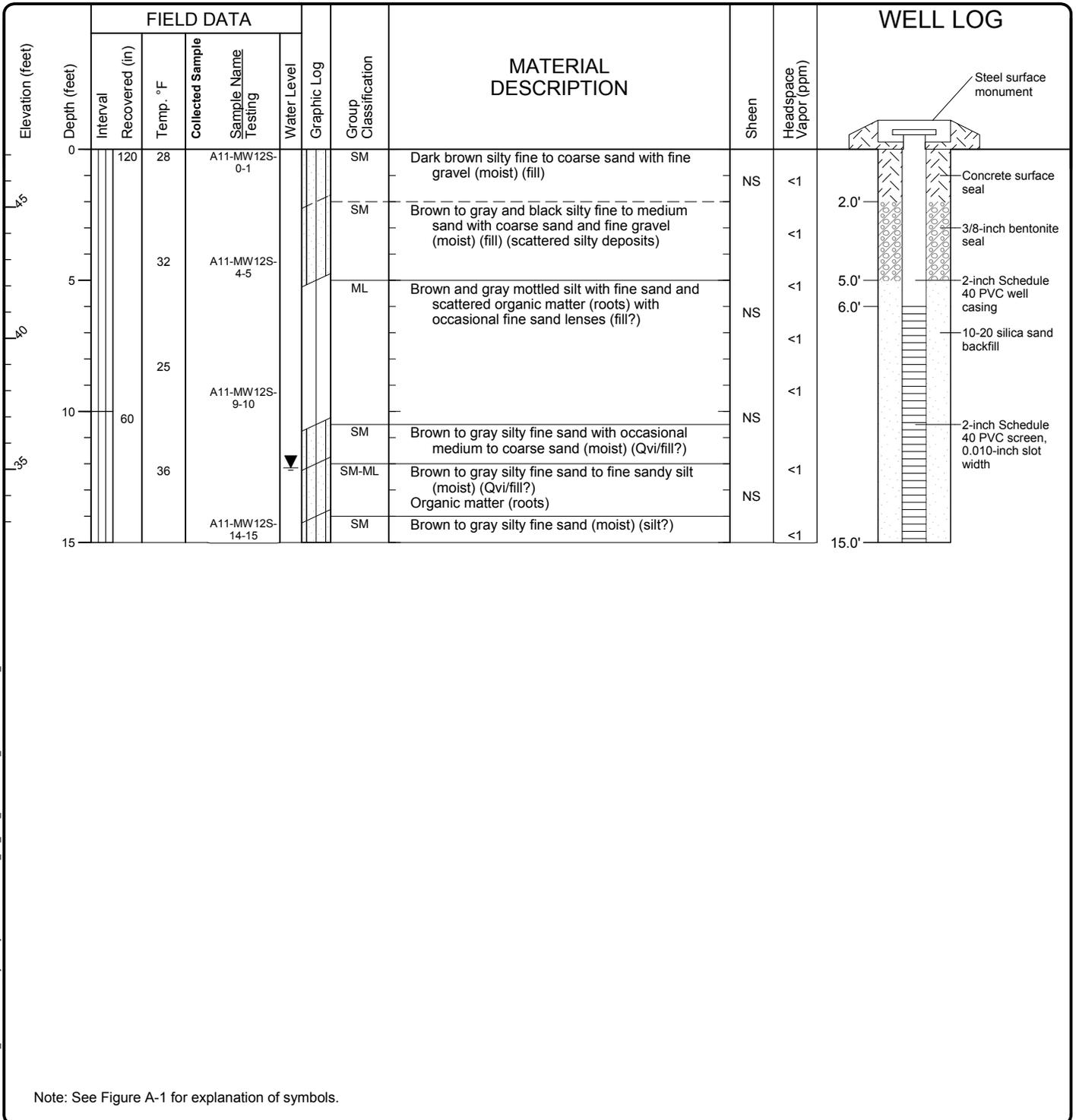
Log of Monitoring Well A11-MW12D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Figure A-27
 Sheet 2 of 2

Start Drilled 8/30/2016	End 8/30/2016	Total Depth (ft)	15	Logged By/JCD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic	
Surface Elevation (ft) Vertical Datum	47.21 NGVD29			Top of Casing Elevation (ft)	46.94	
Latitude Longitude	47.24446944 -122.436317			Horizontal Datum	Geographic NAD83	
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91				A 2 (in) well was installed on 8/30/2016 to a depth of 15 (ft).		
				Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
				12/27/2016	12.2	35.1



Note: See Figure A-1 for explanation of symbols.

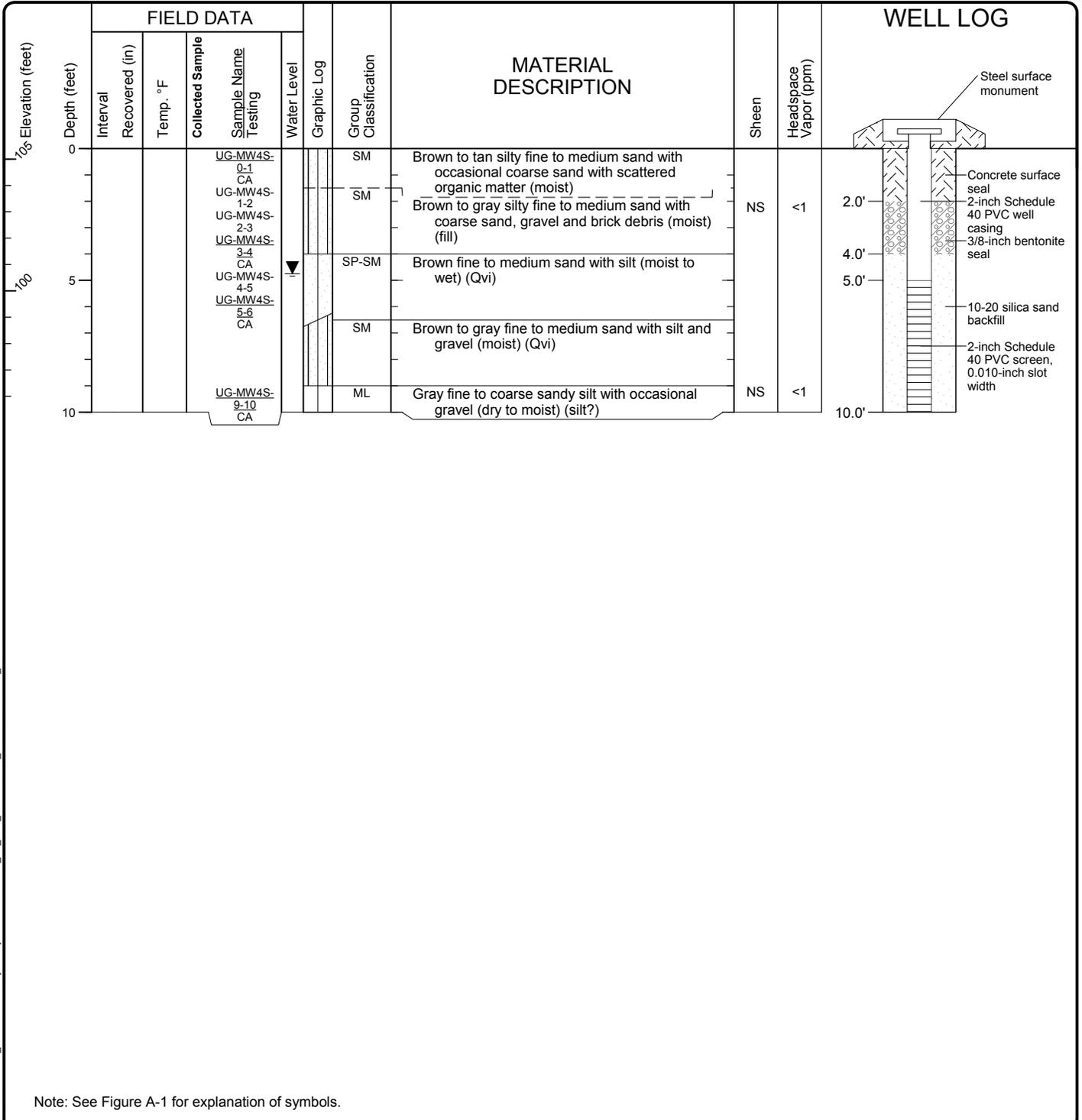
Log of Monitoring Well A11-MW12S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\00183\109\GINT\0183\109000_01.GPJ DBL\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Start Drilled 8/25/2016	End 8/25/2016	Total Depth (ft)	10	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic	
Surface Elevation (ft) Vertical Datum		105.4 NGVD29		Top of Casing Elevation (ft)	104.96	
Latitude	47.24579444			Horizontal Datum	Geographic NAD83	
Longitude	-122.439319				Groundwater Date Measured	Depth to Water (ft) Elevation (ft)
					12/27/2016	4.8 100.7
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91						



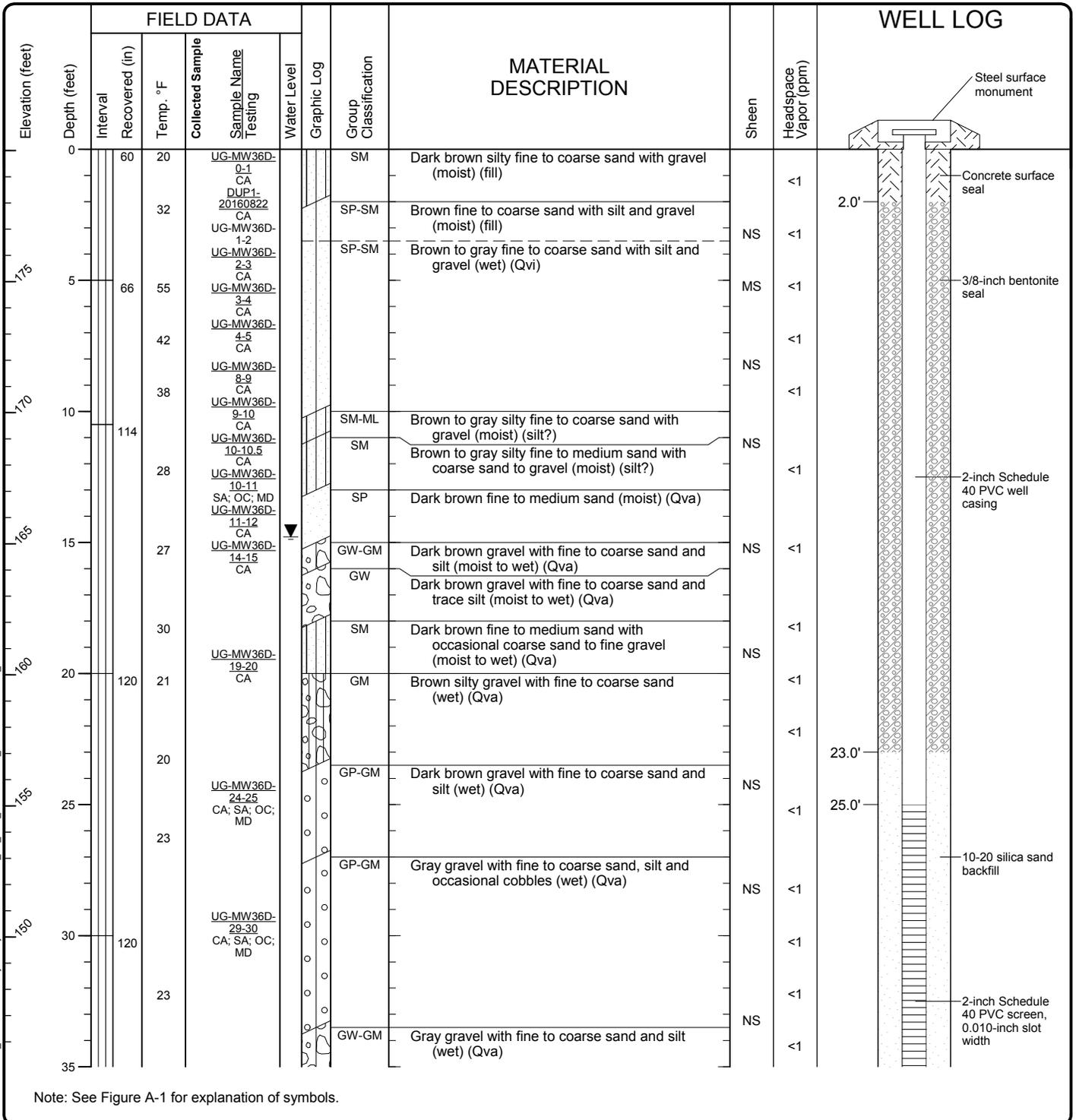
Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well UG-MW4S



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Start Drilled 8/22/2016	End 8/22/2016	Total Depth (ft)	40	Logged By/JLD/RC Checked By TD	Driller Holt Drilling	Drilling Method Sonic
Hammer Data	N/A			Drilling Equipment	Terra Sonic	
Surface Elevation (ft) Vertical Datum	180.05 NGVD29			Top of Casing Elevation (ft)	179.69	
Latitude Longitude	47.24561944 -122.441767			Horizontal Datum	Geographic NAD83	
Notes: Survey was completed by AHBL in December of 2016. Vertical datum is NGVD 29 - Tacoma Datum. Horizontal datum is NAD83/91				A 2 (in) well was installed on 8/22/2016 to a depth of 40 (ft).		Groundwater Date Measured 12/27/2016
				Depth to Water (ft) 14.8		Elevation (ft) 165.3



Log of Monitoring Well UG-MW36D



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

Date: 6/30/17 Path: P:\0183\109\GINT\0183109000_01.GPJ_DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Date: 6/30/17 Path: P:\0183\109\GINT\0183\109000_01.GPJ DBLibrary\Library\GEOENGINEERS_DF_STD_US_GLB\GEB_ENVIRONMENTAL_WELL

Elevation (feet)	FIELD DATA					MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	WELL LOG	
	Interval Recovered (in)	Temp. °F	Collected Sample	Sample Name Testing	Water Level					
35		18		UG-MW36D-35.5-36.5 CA		SP	Gray fine to coarse sand with gravel and trace silt (wet) (Qva)	NS	<1	<p>2-inch Schedule 40 PVC screen, 0.010-inch slot width 10-20 silica sand backfill</p>
						GP	Gray fine gravel with fine to coarse sand and trace silt (wet) (Qva)			
40		17		UG-MW36D-39-40 CA		GM	Gray silty gravel with fine to coarse sand and trace cobbles (wet) (Qva)	NS	<1	
Well was telescoped at base of shallow aquifer per the 2016 RI Work Plan										

Note: See Figure A-1 for explanation of symbols.

Log of Monitoring Well UG-MW36D (continued)



Project: UWT Agreed Order Work Plan
 Project Location: Tacoma, Washington
 Project Number: 0183-109-01

APPENDIX B
Chemical Analytical Program

Project: University of Washington – Tacoma, Agreed Order Work Plan Implementation
2016 Soil and Water Samples

GEI File No: 00183-109-01

Date: May 24, 2017

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA, 2009) of analytical data from the analyses of soil and water samples collected as part of the 2016 sampling events, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the University of Washington – Tacoma (UWT) campus located in Tacoma, Washington.

Objective and Quality Control Elements

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008) and Inorganic Superfund Data Review (USEPA 2010) (National Functional Guidelines) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are well-defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The laboratory data was reviewed for the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Surrogate Recoveries
- Method, Trip, and Rinsate Blanks
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory/Field Duplicates
- Miscellaneous

Validated Sample Delivery Groups

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUPS

Laboratory SDG	Samples Validated
1607-243	A11-MW2D-3-4, A11-MW2D-4-5, A11-MW2D-10-11, A11-MW2D-19-20, A11-MW2D-25-26, A11-MW2D-26-26.5, A11-MW2D-26.5-27, A11-MW2D-32-33, A11-MW2D-36-37, A11-MW2D-40-40.5, A11-MW2D-42-43, A11-MW2D-43-44, A11-MW2D-46-47, A11-MW2D-52-53, A11-MW2D-57-58
1607-272	A11-MW2D-72-73, A11-MW2D-77-78, A11-MW2D-78-79, A11-MW2D-89-90, Dup 1-20160728, A11-MW2D-94-95, A11-MW2D-99-100, TB-20160728
1608-015	A6-MW3S-1-2, A6-MW3S-4-4.5, A6-MW3S-13-14, A6-MW3S-17-18, A6-MW3S-19-20, A6-MW3S-26-27, Dup1-20160801, A6-MW3S-27-28
1608-055	A11-MW3D-6-7, A11-MW3D-12-12.5, A11-MW3D-12.5-13, A11-MW3D-21-22, A11-MW3D-31-32, A11-MW3D-44-45, A11-MW3D-49-49.5, A11-MW3D-51-52, A11-MW3D-62-63, A11-MW3D-72-73
1608-074	A11-MW3D-79-80, A11-MW3D-83-84, A11-MW3D-91-92, A11-MW3D-94-95, A11-MW3D-99-100
1608-075	A11-MW5D-0-1, DUP 1-20160804, A11-MW5D-9-10, A11-MW5D-13.5-14, A11-MW5D-19-20, A11-MW5D-29-30, A11-MW5D-40-41, A11-MW5D-53-54, DUP 2-20160804
1608-085	A11-MW5D-69-70, A11-MW5D-79-80, A11-MW5D-86-86.5, A11-MW5D-86.5-87, A11-MW5D-94-95
1608-128	A11-MW6S-9-10, A11-MW6S-10-11, A11-MW6S-15-15.5, A11-MW6S-17-17.5, A11-MW6S-17.5-18.5, A11-MW6S-19-20
1608-129	A6-MW1D-0-1, A6-MW1D-1-2, A6-MW1D-2-3, A6-MW1D-3-4, A6-MW1D-4-5, A6-MW1D-10-11, A6-MW1D-14-15, A6-MW1D-19-20, A6-MW1D-20-21, A6-MW1D-23-24, A6-MW1D-28-29, A6-MW1D-30-31, A6-MW1D-35-36, A6-MW1D-38-39, DUP1-20160809, A6-MW1D-40-41, A6-MW1D-44-45, TB-20160809
1608-161	A6-MW1S-0-1, A6-MW1S-1-2, A6-MW1S-2-3, A6-MW1S-5-6, A6-MW1S-8-9, A6-MW1S-14-15, A6-MW1S-19-20, A11-MW1D-5.5-6, A11-MW1D-9-10, A11-MW1D-17-17.5, A11-MW1D-17.5-18, A11-MW1D-20-21, Dup1-20160810, A11-MW1D-29-30, A11-MW1D-38-39, A11-MW1D-44-45, A11-MW1D-49-50, A11-MW1S-1-2, Dup1-20160811, A11-MW1S-9-10, A11-MW1S-16-16.5, A11-MW1S-16.5-17, TB-20160810, TB-20160810
1608-177	A11-MW7D-5-5.5, A11-MW7D-14-15, A11-MW7D-18-18.5, A11-MW7D-18.5-19, A11-MW7D-18.5-21-W, A11-MW7D-21-22, A11-MW7D-24-25, A11-MW7D-34-34.5, A11-MW7D-34.5-35, A11-MW7D-42-43, A11-MW7D-53-54, A11-MW7D-59-60, A11-MW7D-63-64, A11-MW7D-66-67
1608-177B	TB-20160812
1608-196	A11-MW7S-4-5, A11-MW7S-9-10, A11-MW7S-15-16
1608-197	A11-MW9S-0-1, A11-MW9S-2-3, A11-MW9S-4-5, A11-MW9S-11.5-12.5, A11-MW9S-17-18, A11-MW9S-18-19, A11-MW9S-23.5-24.5, A11-MW9S-29.5-30, TB-20160815
1608-232	A9-MW1D-0-1, A9-MW1D-4-5, A9-MW1D-7-8, A9-MW1D-9-10, A9-MW1D-14-15, A9-MW1D-19-20, A9-MW1D-24-25, A9-MW1D-30-31, A9-MW1D-36-36.5, A9-MW1D-38-39, A9-MW1D-42-43, A9-MW1D-49-50, A9-MW1D-59-60, A9-MW1D-69-70, TB-20160816

1608-233	A9-MW1S-1-2, A9-MW1S-4-5, A9-MW1S-9-10
1608-265	A6-MW2D-0-1, A6-MW2D-2-3, DUP1-20160818, A6-MW2D-6-7, A6-MW2D-7-8, A6-MW2D-8-9, A6-MW2D-14-15, A6-MW2D-20-21, A6-MW2D-24-25, A6-MW2D-29-30, A6-MW2D-30-31, A6-MW2D-34-35, A6-MW2D-39-40, A6-MW2D-42.5-43.5, A6-MW2D-44-45, A6-MW2D-45-46, A6-MW2D-49-50, A6-MW2D-54-55, A6-MW2D-59-60, RIN-20160818, TB-20160818
1608-282	A6-MW2S-0-1, Dup1-20160822, A6-MW2S-1-2, A6-MW2S-6-7
1608-283	UG-MW36D-0-1, Dup2-20160822, UG-MW36D-1-2, UG-MW36D-2-3, UG-MW36D-3-4, UG-MW36D-4-5, UG-MW36D-9-10, UG-MW36D-10-10.5, UG-MW36D-11-12, UG-MW36D-14-15, UG-MW36D-19-20, UG-MW36D-24-25, UG-MW36D-29-30, UG-MW36D-35.5-36.5, UG-MW36D-39-40, TB-20160822
1608-299	UG-MW27S-0-1, Dup1-20160823, UG-MW27S-6-7, UG-MW27S-14-15, UG-MW27S-25.5-26.5, UG-MW27S-26.5-27.5, UG-MW27S-29.5-30.5
1608-299B	TB-20160823
1608-300	A11-MW8S-3-4, A11-MW8S-9-10, A11-MW8S-15-16, A11-MW8S-16-17, A11-MW8S-18-19
1608-324	A11-MW11D-0-1,1-2,2-3,3-4 Comp., A11-MW11D-3-4, A11-MW11D-7-8, A11-MW11D-8-9, A11-MW11D-9-10, A11-MW11D-19-20, A11-MW11D-29-30, A11-MW11D-31-32, A11-MW11D-39-40, A11-MW11D-49-50, A11-MW11D-54-55, A11-MW11D-59-60, TB-20160824
1608-324B	A11-MW11D-14-15
1608-326	UG-MW4S-0-1, Dup1-20160825, UG-MW4S-3-4, UG-MW4S-5-6, UG-MW4S-9-10, TB-20160825
1608-352	A11-MW10D-1-2, A11-MW10D-2-3, A11-MW10D-4-5, A11-MW10D-5-6, A11-MW10D-8-9, A11-MW10D-12-13, A11-MW10D-18-19, A11-MW10D-20-21, A11-MW10D-24-25, A11-MW10D-28-29, A11-MW10D-31-32, A11-MW10D-35-36, A11-MW10D-39-40, A11-MW10S-1-2, TB-20160826
1608-377	A11-MW12D-5-6, A11-MW12D-6-7, A11-MW12D-12-13, A11-MW12D-15-16, A11-MW12D-25-26, A11-MW12D-29-30, A11-MW12D-35-36, A11-MW12D-39-40, A11-MW12D-44-45, A11-MW12D-49-50, TB-20160829
1608-395	RIN-20160830
1609-012	A7-MW1D-6-7, A7-MW1D-9-10, A7-MW1D-15-16, A7-MW1D-19-20, A7-MW1D-25-26, DUP1-20160831, A7-MW1D-26-27, A7-MW1D-29-30, A7-MW1D-34-35, A7-MW1D-39-40, TB-20160831
1609-021	A7-MW1S-5-6, A7-MW1S-9-10, A7-MW1S-12-13, TB-20160901
1611-132	A7-MW2S-6-7,10-11,15.5-16.5,17-18,24-25 Comp., A7-MW2S-10-11, A7-MW2S-15.5-16.5, A7-MW2S-17-18, A7-MW2S-24-25
1612-013	A11-MW1D-161201, A11-MW6S-161201
1612-029	A11-MW2D-161202, A11-MW3D-161202, A11-MW5D-161202, A11-MW7S-161202, A11-MW7D-161202
1612-029B	TB-20161202
1612-040	A6-MW1D-161205, A6-MW2D-161205, A6-MW3S-161205, A9-MW1D-161205, UG-MW19-161205, UG-MW21-161205, UG-MW24-161205, UG-MW37R-161205, UG-MW38S-161205, UG-MW38D-161205

1612-051	A6-MW2S-161206, A11-MW9S-161206, BA-MW2-161206, UG-MW9-161206, UG-MW14-161206, UG-MW16-161206, UG-MW30S-161206, UG-MW30D-161206, UG-MW31-161206, TB-20161206
1612-064	A9-MW1S-161207, A11-MW8S-161207, DD-MW2-161207, DUP-161207, UG-MW17-161207, UG-MW18-161207, UG-MW27-161207, UG-MW28-161207, UG-MW27S-161207, UG-MW32-161207, Y-MW3D-161207, TB-20161207
1612-087	UG-MW20-161209, Y-MW1S-161209, Y-MW1D-161209, Y-MW3S-161208, Y-MW7S-161209, TB-20161209
1612-098	A11-MW10S-161212, A11-MW10D-161212, JS-MW6S-161212, UG-MW23-161212, UG-MW25S-161212, UG-MW25D-161212, DUP-161212, UG-MW26-161212, Y-MW2S-161212, TB-20161212
1612-113	DD-MW1-161213, UG-MW3-161213, UG-MW4-161213, UG-MW7-161213, UG-MW8-161213, UG-MW22-161213, UG-MW29S-161213, UG-MW33-161213, UG-MW35-161213, UG-MW36-161213, UG-MW36D-161213, TB-20161213
1612-118	A11-MW11S-161214, A11-MW11D-161214, JP-MW1R-161214, JP-MW2-161214, DUP-161214, JS-MW5-161214, JS-MW6D-161214, JS-MW7A-161214, UG-MW1-161214, UG-MW4S-161214, TB-20161214
1612-130	BL-MW4-161215, CR-MW12-161215, JS-MW1-161215, JS-MW2-161215, JS-MW3-161215, JS-MW3S-161215, TB-20161215
1612-131	BA-MW1-161216, CB-6512234, UG-MW2R-161216, UG-MW6-161216, UG-MW12-161216, DUP-161216, UG-MW13-161216, TB-20161216
1612-152	MH:6751795-161218, MH:6751818-161218, MH:6751942-161218, MH:6767107-161218, MH:6767230-161218, MH:6767239-161218
1612-153	A7-MW1S-161219, A7-MW1D-161219, JS-MW4D-161219, PL-MW1-161219, USC-MW1S-161219, USC-MW1D-161219, TB-20161219
1612-170	A11-MW12S-161220, A11-MW12D-161220, DUP-161220, CR-MW3-161220, CR-MW16-161220, CR-MW17-161220, MDS-MW1D-161220, PL-MW2-161220, SH-MW8-161220, TB-20161220
1612-188	BL-MW1-161221, BL-MW5-161221, CR-MW8-161221, CR-MW9-161221, PS-MW6-161221, PS-MW7-161221, PS-MW8-161221, PS-MW9-161221, SH-MW6-161221, TB-20161221
1612-189	BL-MW3-161222, DUP-161222, BL-MW6-161222, CR-MW5-161222, CR-MW6-161222, TB-20161222
1612-215	A6-MW1S-161228, A6-MW2S-161228, A6-MW2D-161228, CR-MW15-161228, SH-MW7-161228, TB-20161228

Chemical Analysis Performed

OnSite Environmental, Inc. (OnSite), located in Redmond, Washington, performed laboratory analysis on the samples using one or more of the following methods:

- Hydrocarbon Identification (NWTPH-HCID) by Method NWTPH-HCID;
- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) by Method SW8021B;

- Volatile Organic Compounds (VOCs) by Method SW8260C;
- Polycyclic Aromatic Hydrocarbons (PAHs) by Method SW8270D-SIM;
- Total Metals (Soil) by Methods EPA6010C/7471B; and
- Total Metals (Water) by Method EPA200.8

Data Validation Summary

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The laboratory did not include the sample receipt forms that discuss any anomalies with the samples once they are received by the laboratory.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The laboratory did not include the sample receipt forms; therefore, the sample cooler temperatures could not be verified that they were within the control limits upon arrival at the laboratory.

SDG 1608-129: (VOCs) The 14-day holding time for VOC analysis was exceeded by three days in Sample TB-20160809. The reporting limits for all VOC target analytes were qualified as estimated (UJ) in this sample.

SDG 1608-161: (VOCs) The 14-day holding time for VOC analysis was exceeded by two days in Samples TB-20160810. There were two sets of sample vials labelled with the sample ID of TB-20160810, one with samples collected on 8/10/2016 and the other with samples collected on 8/11/2016. For the purpose of giving each sample a unique sample ID, Sample TB-20160810 submitted with samples collected on 8/11/2016 will be referred to as TB-20160810(2). The reporting limits for all VOC target analytes were qualified as estimated (UJ) in these samples.

SDG 1608-283: (NWTPH-Gx) The 14-day holding time for NWTPH-Gx analysis was exceeded by three days in Samples UG-MW36D-2-3 and UG-MW36D-4-5. The positive result and reporting limit for gasoline-range hydrocarbons were qualified as estimated (J and UJ) in Samples UG-MW36D-2-3 and UG-MW36D-4-5, respectively.

(NWTPH-Dx) The 14-day holding time for NWTPH-Dx analysis was exceeded by three days in Samples UG-MW36D-2-3 and UG-MW36D-4-5. The positive results for diesel-range and lube oil-range hydrocarbons were qualified as estimated (J) in Sample UG-MW36D-2-3. The reporting limits for diesel-range and lube oil-range hydrocarbons were qualified as estimated (UJ) in Sample UG-MW36D-4-5.

(VOCs) The 14-day holding time for VOC analysis was exceeded by four days in Sample UG-MW36D-14-15. The reporting limits for all VOC target analytes were qualified as estimated (UJ) in this sample.

SDG 1608-299B: (VOCs) The 14-day holding time for VOC analysis was exceeded by two days in Sample TB-20160823. The reporting limits for all VOC target analytes were qualified as estimated (UJ) in this sample.

SDG 1608-324B: (VOCs) The 14-day holding time for VOC analysis was exceeded by two days in Sample A11-MW11D-14-15. The reporting limits for all VOC target analytes were qualified as estimated (UJ) in this sample.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits, with the following exception:

SDG 1608-283: (PAHs) The percent recovery for surrogate terphenyl-d14 was greater than the control limits in Sample UG-MW36D-3-4; however, the sample was spiked with two additional surrogates, all within the control limits. No action was required for this outlier.

Method, Trip, and Rinsate Blanks

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For the sample batches, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks, with the following exceptions:

SDG 1612-170: (PAHs) There was a positive result for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[j,k]fluoranthene, chrysene, dibenz[a,h]anthracene, and indeno(1,2,3-c,d)pyrene detected above the reporting limit in the method blank extracted on 12/23/2016. The laboratory noted these detections were due to contamination from an unknown source. There were no positive results in the associated field sample; therefore, no qualifications were required.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the target analytes were detected above the reporting limits in the trip blanks.

Rinsate Blanks

Equipment rinsate blanks are analyzed to provide an indication as to whether field decontamination and sampling procedures effectively prevent cross-contamination in field activities. None of the target analytes were detected above the reporting limits in the rinsate blanks.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for all analyses and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 1608-015: (Total Metals) The laboratory performed an MS/MSD sample set with percent recovery outliers; however, it was performed on a sample that was not associated with the field samples collected by GeoEngineers. For this reason, no action was required.

SDG 1608-197: (Total Metals) The laboratory performed an MS/MSD sample set with a percent recovery outlier; however, it was performed on a sample that was not associated with the field samples collected by GeoEngineers. For this reason, no action was required.

SDG 1608-265: (Total Metals) The laboratory performed an MS/MSD sample set on Sample A6-MW2D-0-1. The percent recovery for total mercury was less than the control limits in the MS extracted on 8/22/2016; however, the percent recovery for this target analyte was within the control limits in the corresponding MSD. For this reason, no qualification was required. Additionally, in the same MS/MSD sample set, the RPD for total mercury was greater than the control limit. There were no positive results for this target analyte in Sample A6-MW2D-0-1; therefore, no qualification was required.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A laboratory control sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, the LCS/LCSD control limits for accuracy and precision are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to the samples in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. The RPD control limits are specified in the laboratory documents.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 1608-197: (Total Metals) A laboratory duplicate was performed with an RPD outlier; however, it was performed on a sample that was not associated with the field samples collected by GeoEngineers. For this reason, no action was required.

Field Duplicates

In order to assess precision, field duplicate samples are collected and analyzed along with the reviewed sample batches. The duplicate samples are analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration greater than five times the reporting limit for that sample, then the absolute difference is used instead of the RPD. The RPD control limit for water samples is 35 percent and the RPD control limit for soil samples is 50 percent.

SDG 1607-272: One field duplicate sample pair, A11-MW2D-89-90 and Dup 1-20160728, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1608-015: One field duplicate sample pair, A6-MW3S-26-27 and Dup1-20160801, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1608-075: Two field duplicate sample pairs, A11-MW5D-0-1/DUP 1-20160804 and A11-MW5D-53-54/DUP 2-20160804, were submitted with this SDG. The precision criteria for the target analytes were met for these sample pairs.

SDG 1608-129: One field duplicate sample pair, A6-MW1D-38-39 and DUP1-20160809, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1608-161: Two field duplicate sample pairs, A11-MW1D-20-21/DUP1-20160810 and A11-MW1S-1-2/DUP1-20160811, were submitted with this SDG. The precision criteria for the target analytes were met for these sample pairs.

SDG 1608-265: One field duplicate sample pair, A6-MW2D-2-3 and DUP1-20160818, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1608-282: One field duplicate sample pair, A6-MW2S-0-1 and Dup1-20160822, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of total lead. The positive results for this target analyte were qualified as estimated (J) in this sample pair.

SDG 1608-283: One field duplicate sample pair, UG-MW36D-0-1 and DUP2-20160822, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1608-299: One field duplicate sample pair, UG-MW27S-0-1 and Dup1-20160823, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1608-326: One field duplicate sample pair, UG-MW4S-0-1 and Dup1-20160825, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair, with the exception of fluoranthene and pyrene. The positive results for these target analytes were qualified as estimated (J) in this sample pair.

SDG 1609-012: One field duplicate sample pair, A7-MW1D-25-26 and Dup1-20160831, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1612-064: One field duplicate sample pair, DD-MW2-161207 and DUP-161207, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1612-098: One field duplicate sample pair, UG-MW25D-161212 and DUP-161212, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1612-118: One field duplicate sample pair, JP-MW2-161214 and DUP-161214, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1612-131: One field duplicate sample pair, UG-MW12-161216 and DUP-161216, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1612-170: One field duplicate sample pair, A11-MW12D-161220 and DUP-161220, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

SDG 1612-189: One field duplicate sample pair, BL-MW3-161222 and DUP-161222, was submitted with this SDG. The precision criteria for the target analytes were met for this sample pair.

Miscellaneous

SDG 1608-283: (NWTPH-Gx) The laboratory noted that the positive results for gasoline-range hydrocarbons in Samples UG-MW36D-2-3 and UG-MW36D-3-4 are not in the typical hydrocarbon range. For this reason, the positive results for gasoline-range hydrocarbons were qualified as estimated (J) in these samples.

SDG 1612-118: (NWTPH-Gx) The laboratory noted that the positive result for gasoline-range hydrocarbons is influenced by a single peak (chlorobenzene) in Sample JP-MW2-161214. For this reason, the positive result for gasoline-range hydrocarbons was qualified as estimated (J) in this sample.

SDG 1612-131: (NWTPH-Gx) The laboratory noted that the positive result for gasoline-range hydrocarbons is influenced by a single peak (chlorobenzene) in Sample UG-MW6-161216. For this reason, the positive result for gasoline-range hydrocarbons was qualified as estimated (J) in this sample.

Overall Assessment

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

All data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
A6-MW2S-0-1	Total lead	J	Field Duplicate RPD
Dup1-20160822	Total lead	J	Field Duplicate RPD
A11-MW11D-14-15	All VOC target analytes	UJ	Holding Time
JP-MW2-161214	Gasoline-range hydrocarbons	J	See Miscellaneous

Sample ID	Analyte	Qualifier	Reason
UG-MW4S-0-1	Fluoranthene	J	Field Duplicate RPD
	Pyrene	J	Field Duplicate RPD
Dup1-20160825	Fluoranthene	J	Field Duplicate RPD
	Pyrene	J	Field Duplicate RPD
UG-MW6-161216	Gasoline-range hydrocarbons	J	See Miscellaneous
UG-MW36D-2-3	Gasoline-range hydrocarbons	J	Holding Time/See Miscellaneous
	Diesel-range hydrocarbons	J	Holding Time
	Lube oil-range hydrocarbons	J	Holding Time
UG-MW36D-3-4	Gasoline-range hydrocarbons (NWTPH-Gx)	J	See Miscellaneous
UG-MW36D-4-5	Gasoline-range hydrocarbons	UJ	Holding Time
	Diesel-range hydrocarbons	UJ	Holding Time
	Lube oil-range hydrocarbons	UJ	Holding Time
UG-MW36D-14-15	All VOC target analytes	UJ	Holding Time
TB-20160809	All VOC target analytes	UJ	Holding Time
TB-20160810	All VOC target analytes	UJ	Holding Time
TB-20160810(2)	All VOC target analytes	UJ	Holding Time
TB-20160823	All VOC target analytes	UJ	Holding Time

References

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," EPA-540-R-08-01. June 2008.

U.S. Environmental Protection Agency (USEPA). "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review," EPA-540-R-10-011. January 2010.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 2, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01 T500
Laboratory Reference No. 1607-243

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on July 27, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 2, 2016
Samples Submitted: July 27, 2016
Laboratory Reference: 1607-243
Project: 0183-109-01 T500

Case Narrative

Samples were collected on July 27, 2016 and received by the laboratory on July 27, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 2, 2016
 Samples Submitted: July 27, 2016
 Laboratory Reference: 1607-243
 Project: 0183-109-01 T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW2D-3-4	07-243-01	Soil	7-27-16	7-27-16	
A11-MW2D-4-5	07-243-02	Soil	7-27-16	7-27-16	
A11-MW2D-10-11	07-243-03	Soil	7-27-16	7-27-16	
A11-MW2D-19-20	07-243-04	Soil	7-27-16	7-27-16	
A11-MW2D-25-26	07-243-05	Soil	7-27-16	7-27-16	
A11-MW2D-26-26.5	07-243-06	Soil	7-27-16	7-27-16	
A11-MW2D-26.5-27	07-243-07	Soil	7-27-16	7-27-16	
A11-MW2D-32-33	07-243-08	Soil	7-27-16	7-27-16	
A11-MW2D-36-37	07-243-09	Soil	7-27-16	7-27-16	
A11-MW2D-40-40.5	07-243-10	Soil	7-27-16	7-27-16	
A11-MW2D-42-43	07-243-11	Soil	7-27-16	7-27-16	
A11-MW2D-43-44	07-243-12	Soil	7-27-16	7-27-16	
A11-MW2D-46-47	07-243-13	Soil	7-27-16	7-27-16	
A11-MW2D-52-53	07-243-14	Soil	7-27-16	7-27-16	
A11-MW2D-57-58	07-243-15	Soil	7-27-16	7-27-16	



Date of Report: August 2, 2016
 Samples Submitted: July 27, 2016
 Laboratory Reference: 1607-243
 Project: 0183-109-01 T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-3-4					
Laboratory ID:	07-243-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0053	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0053	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0053	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0076	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	



Date of Report: August 2, 2016
 Samples Submitted: July 27, 2016
 Laboratory Reference: 1607-243
 Project: 0183-109-01 T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-3-4					
Laboratory ID:	07-243-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.0011	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.058	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.058	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.29	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.29	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.058	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>60-146</i>				



Date of Report: August 2, 2016
 Samples Submitted: July 27, 2016
 Laboratory Reference: 1607-243
 Project: 0183-109-01 T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-4-5					
Laboratory ID:	07-243-02					
Dichlorodifluoromethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0039	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0039	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0039	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0056	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-4-5					
Laboratory ID:	07-243-02					
1,1,2-Trichloroethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00078	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-10-11					
Laboratory ID:	07-243-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0052	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0052	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0052	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0075	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-10-11					
Laboratory ID:	07-243-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-19-20					
Laboratory ID:	07-243-04					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0046	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0046	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0046	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0066	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-19-20					
Laboratory ID:	07-243-04					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-25-26					
Laboratory ID:	07-243-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0051	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0051	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0051	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0074	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-25-26					
Laboratory ID:	07-243-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-26-26.5					
Laboratory ID:	07-243-06					
Dichlorodifluoromethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0044	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0044	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0044	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0063	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-26-26.5					
Laboratory ID:	07-243-06					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-26.5-27					
Laboratory ID:	07-243-07					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0067	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-26.5-27					
Laboratory ID:	07-243-07					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-32-33					
Laboratory ID:	07-243-08					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0048	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0048	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0048	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0070	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-32-33					
Laboratory ID:	07-243-08					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-36-37					
Laboratory ID:	07-243-09					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0068	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-36-37					
Laboratory ID:	07-243-09					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	76-131				
<i>Toluene-d8</i>	98	80-126				
<i>4-Bromofluorobenzene</i>	96	60-146				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-40-40.5					
Laboratory ID:	07-243-10					
Dichlorodifluoromethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0041	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0041	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0041	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0059	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-40-40.5					
Laboratory ID:	07-243-10					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	95	76-131				
<i>Toluene-d8</i>	99	80-126				
<i>4-Bromofluorobenzene</i>	98	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-42-43					
Laboratory ID:	07-243-11					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	7-29-16	7-29-16	
Chloromethane	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromomethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloroethane	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Iodomethane	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
Methylene Chloride	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloroform	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-42-43					
Laboratory ID:	07-243-11					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromoform	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-43-44					
Laboratory ID:	07-243-12					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloromethane	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
Vinyl Chloride	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Bromomethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Chloroethane	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
Trichlorofluoromethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Iodomethane	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
Methylene Chloride	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
2,2-Dichloropropane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Bromochloromethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Chloroform	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,1,1-Trichloroethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Carbon Tetrachloride	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloropropene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloroethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Trichloroethene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloropropane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Dibromomethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Bromodichloromethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
(cis) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
(trans) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-43-44					
Laboratory ID:	07-243-12					
1,1,2-Trichloroethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Tetrachloroethene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,3-Dichloropropane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Dibromochloromethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromoethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Chlorobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Bromoform	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Bromobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.00079	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-46-47					
Laboratory ID:	07-243-13					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	7-29-16	7-29-16	
Chloromethane	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
Vinyl Chloride	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Bromomethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Chloroethane	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Iodomethane	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
Methylene Chloride	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Bromochloromethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Chloroform	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Trichloroethene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Dibromomethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Bromodichloromethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-46-47					
Laboratory ID:	07-243-13					
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Tetrachloroethene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Dibromochloromethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Chlorobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Bromoform	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Bromobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-52-53					
Laboratory ID:	07-243-14					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	7-29-16	7-29-16	
Chloromethane	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Bromomethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Chloroethane	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Iodomethane	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
Methylene Chloride	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Bromochloromethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Chloroform	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Trichloroethene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Dibromomethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-52-53					
Laboratory ID:	07-243-14					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Chlorobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Bromoform	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Bromobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-57-58					
Laboratory ID:	07-243-15					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	7-29-16	7-29-16	
Chloromethane	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromomethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloroethane	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Iodomethane	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
Methylene Chloride	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloroform	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-57-58					
Laboratory ID:	07-243-15					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromoform	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0728S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloromethane	ND	0.0050	EPA 8260C	7-28-16	7-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromomethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloroethane	ND	0.0050	EPA 8260C	7-28-16	7-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Iodomethane	ND	0.0050	EPA 8260C	7-28-16	7-28-16	
Methylene Chloride	ND	0.0072	EPA 8260C	7-28-16	7-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chloroform	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-28-16	7-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0728S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromoform	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-28-16	7-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-28-16	7-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-28-16	7-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0729S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	7-29-16	7-29-16	
Chloromethane	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromomethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloroethane	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Iodomethane	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
Methylene Chloride	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chloroform	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0729S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromoform	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	7-29-16	7-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	7-29-16	7-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0728S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0441	0.0472	0.0500	0.0500	88	94	68-126	7	15	
Benzene	0.0470	0.0507	0.0500	0.0500	94	101	75-121	8	15	
Trichloroethene	0.0464	0.0494	0.0500	0.0500	93	99	75-120	6	15	
Toluene	0.0498	0.0527	0.0500	0.0500	100	105	80-120	6	15	
Chlorobenzene	0.0464	0.0515	0.0500	0.0500	93	103	76-120	10	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>107</i>	<i>99</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>105</i>	<i>96</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>104</i>	<i>100</i>	<i>60-146</i>			



Date of Report: August 2, 2016
 Samples Submitted: July 27, 2016
 Laboratory Reference: 1607-243
 Project: 0183-109-01 T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0729S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0441	0.0460	0.0500	0.0500	88	92	68-126	4	15	
Benzene	0.0484	0.0495	0.0500	0.0500	97	99	75-121	2	15	
Trichloroethene	0.0481	0.0506	0.0500	0.0500	96	101	75-120	5	15	
Toluene	0.0512	0.0550	0.0500	0.0500	102	110	80-120	7	15	
Chlorobenzene	0.0496	0.0529	0.0500	0.0500	99	106	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>94</i>	<i>97</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>96</i>	<i>101</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>95</i>	<i>97</i>	<i>60-146</i>			



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Project: 0183-109-01 T500

% MOISTURE

Date Analyzed: 7-29-16

Client ID	Lab ID	% Moisture
A11-MW2D-3-4	07-243-01	14
A11-MW2D-4-5	07-243-02	10
A11-MW2D-10-11	07-243-03	9
A11-MW2D-19-20	07-243-04	5
A11-MW2D-25-26	07-243-05	5
A11-MW2D-26-26.5	07-243-06	3
A11-MW2D-26.5-27	07-243-07	6
A11-MW2D-32-33	07-243-08	5
A11-MW2D-36-37	07-243-09	5
A11-MW2D-40-40.5	07-243-10	2
A11-MW2D-42-43	07-243-11	3
A11-MW2D-43-44	07-243-12	1
A11-MW2D-46-47	07-243-13	3
A11-MW2D-52-53	07-243-14	5
A11-MW2D-57-58	07-243-15	5





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

07-243

Company: Gas Engineers
 Project Number: OR3-109-01 T500
 Project Name: WWT-2016 RE
 Project Manager: Erica DeOne
 Sampled by: SD/RK

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	A11-MW2D-3-4	7/27/16	11:55	S
2	A11-MW2D-4-5		11:20	S
3	A11-MW2D-10-11		12:05	S
4	A11-MW2D-19-20		12:10	S
5	A11-MW2D-25-26		1:50	S
6	A11-MW2D-26-26S		1:55	S
7	A11-MW2D-26.5-27		2:00	S
8	A11-MW2D-32-33		13:15	S
9	A11-MW2D-36-37		13:20	S
10	A11-MW2D-40-40.5		13:50	S

Number of Containers	Laboratory Number: 07-243																
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
4						X											X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GAEI	7/27/16	16:00	
<i>[Signature]</i>	GAEI	7/27/16	17:49	
<i>[Signature]</i>	Alpha Courier	7/27/16	17:49	
<i>[Signature]</i>	Alpha Courier	7/27/16	17:49	

Relinquished
Received
Relinquished
Received
Relinquished
Received
Relinquished
Received
Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Electronic Data Deliverables (EDDs)

Chromatograms with final report



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 5, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1607-272

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on July 29, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: August 5, 2016
Samples Submitted: July 29, 2016
Laboratory Reference: 1607-272
Project: 0183-109-01-T500

Case Narrative

Samples were collected on July 28, 2016 and received by the laboratory on July 29, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 5, 2016
Samples Submitted: July 29, 2016
Laboratory Reference: 1607-272
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW2D-72-73	07-272-04	Soil	7-28-16	7-29-16	
A11-MW2D-77-78	07-272-05	Soil	7-28-16	7-29-16	
A11-MW2D-78-79	07-272-06	Soil	7-28-16	7-29-16	
A11-MW2D-89-90	07-272-07	Soil	7-28-16	7-29-16	
A11-MW2D-94-95	07-272-08	Soil	7-28-16	7-29-16	
TB-20160728	07-272-09	Water	7-28-16	7-29-16	
A11-MW2D-99-100	07-272-10	Soil	7-28-16	7-29-16	
Dup 1-20160728	07-272-11	Soil	7-28-16	7-29-16	



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-72-73					
Laboratory ID:	07-272-04					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0046	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0046	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0046	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0065	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-72-73					
Laboratory ID:	07-272-04					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-77-78					
Laboratory ID:	07-272-05					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0045	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0045	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0045	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0064	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-77-78					
Laboratory ID:	07-272-05					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-78-79					
Laboratory ID:	07-272-06					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0035	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0035	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0035	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0049	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-78-79					
Laboratory ID:	07-272-06					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



Date of Report: August 5, 2016
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 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-89-90					
Laboratory ID:	07-272-07					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0038	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0038	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0038	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-89-90					
Laboratory ID:	07-272-07					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-94-95					
Laboratory ID:	07-272-08					
Dichlorodifluoromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0057	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-94-95					
Laboratory ID:	07-272-08					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-99-100					
Laboratory ID:	07-272-10					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0042	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0042	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0042	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-99-100					
Laboratory ID:	07-272-10					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 1-20160728					
Laboratory ID:	07-272-11					
Dichlorodifluoromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup 1-20160728					
Laboratory ID:	07-272-11					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



Date of Report: August 5, 2016
 Samples Submitted: July 29, 2016
 Laboratory Reference: 1607-272
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0804S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Chloromethane	ND	0.0050	EPA 8260C	8-4-16	8-4-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Bromomethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Chloroethane	ND	0.0050	EPA 8260C	8-4-16	8-4-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Iodomethane	ND	0.0050	EPA 8260C	8-4-16	8-4-16	
Methylene Chloride	ND	0.0071	EPA 8260C	8-4-16	8-4-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Chloroform	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-4-16	8-4-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0804S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Bromoform	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-4-16	8-4-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-4-16	8-4-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0804S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0460	0.0458	0.0500	0.0500	92	92	68-126	0	15	
Benzene	0.0492	0.0495	0.0500	0.0500	98	99	75-121	1	15	
Trichloroethene	0.0500	0.0495	0.0500	0.0500	100	99	75-120	1	15	
Toluene	0.0535	0.0530	0.0500	0.0500	107	106	80-120	1	15	
Chlorobenzene	0.0503	0.0499	0.0500	0.0500	101	100	76-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	96	76-131			
Toluene-d8					100	96	80-126			
4-Bromofluorobenzene					99	96	60-146			



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160728					
Laboratory ID:	07-272-09					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	8-1-16	8-1-16	
Chloromethane	ND	1.6	EPA 8260C	8-1-16	8-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromomethane	ND	0.54	EPA 8260C	8-1-16	8-1-16	
Chloroethane	ND	1.0	EPA 8260C	8-1-16	8-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Iodomethane	ND	2.6	EPA 8260C	8-1-16	8-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-1-16	8-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Chloroform	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Trichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Dibromomethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-1-16	8-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-1-16	8-1-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160728					
Laboratory ID:	07-272-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromoform	ND	1.0	EPA 8260C	8-1-16	8-1-16	
Bromobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-1-16	8-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0801W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	8-1-16	8-1-16	
Chloromethane	ND	1.6	EPA 8260C	8-1-16	8-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromomethane	ND	0.54	EPA 8260C	8-1-16	8-1-16	
Chloroethane	ND	1.0	EPA 8260C	8-1-16	8-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Iodomethane	ND	2.6	EPA 8260C	8-1-16	8-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-1-16	8-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Chloroform	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Trichloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Dibromomethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-1-16	8-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-1-16	8-1-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0801W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Bromoform	ND	1.0	EPA 8260C	8-1-16	8-1-16	
Bromobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-1-16	8-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-1-16	8-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-1-16	8-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	
					Recovery	Limits	RPD	Limit	Flags
SPIKE BLANKS									
Laboratory ID:	SB0801W1								
	SB	SBD	SB	SBD	SB	SBD			
1,1-Dichloroethene	10.4	9.45	10.0	10.0	104	95	62-132	10	20
Benzene	10.8	10.1	10.0	10.0	108	101	75-121	7	15
Trichloroethene	8.70	8.01	10.0	10.0	87	80	65-115	8	15
Toluene	10.5	9.61	10.0	10.0	105	96	78-120	9	15
Chlorobenzene	10.2	9.57	10.0	10.0	102	96	77-118	6	15
<i>Surrogate:</i>									
Dibromofluoromethane					103	101	71-131		
Toluene-d8					96	92	80-127		
4-Bromofluorobenzene					94	95	80-125		



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% MOISTURE

Date Analyzed: 8-4-16

Client ID	Lab ID	% Moisture
A11-MW2D-72-73	07-272-04	7
A11-MW2D-77-78	07-272-05	8
A11-MW2D-78-79	07-272-06	11
A11-MW2D-89-90	07-272-07	12
A11-MW2D-94-95	07-272-08	14
A11-MW2D-99-100	07-272-10	9
Dup 1-20160728	07-272-11	14





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **07-272**

Company: **GeoEngineers**
 Project Number: **0183-109-0, T500**
 Project Name: **WWT - 2016 RI**
 Project Manager: **Tricia D. Ome**
 Sampled by: **SCD/rlc**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	A11-MW2D-62-63	7/28/16	10:25	S	4						X												
2	A11-MW2D-66-66.5		10:30		1						X												
3	A11-MW2D-67-68		10:35		1						X												
4	A11-MW2D-72-73		11:15		1						X												
5	A11-MW2D-77-78		11:55		1						X												
6	A11-MW2D → 78-79		12:00		1						X												
7	A11-MW2D → 89-90		12:15		1						X												
8	A11-MW2D → 94-95		13:40		1						X												
9	TB-20160728				1						X												
10	A11-MW2D → 99-100		13:45		4						X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	<i>[Signature]</i>	7/28/16	16:10	
<i>[Signature]</i>	GEI	7/29/16	15:30	
<i>[Signature]</i>	GEI	7/29/16	15:31	
<i>[Signature]</i>	Alpha	7/29/16	17:45	
<i>[Signature]</i>	Alpha	7/29/16	17:45	

Received/Date _____

Reviewed/Date _____

Chromatograms with final report



Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number:

07-272

Company: **Tricia DeOne**

Project Number: **Geg Engineers**

Project Name: **0183-109-01, T500**

Project Manager: **WWT-2016 RT**

Sampled by: **JCD/PC**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	Dup 1-20160728	7/28/16	0700	S

Number of Containers		4
NWTPH-HCID		
NWTPH-Gx/BTEX		
NWTPH-Gx		
NWTPH-Dx		
Volatiles 8260C		
Halogenated Volatiles 8260C		X
Semivolatiles 8270D/SIM (with low-level PAHs)		
PAHs 8270D/SIM (low-level)		
PCBs 8082A		
Organochlorine Pesticides 8081B		
Organophosphorus Pesticides 8270D/SIM		
Chlorinated Acid Herbicides 8151A		
Total RCRA Metals		
Total MTCA Metals		
TCLP Metals		
HEM (oil and grease) 1664A		
% Moisture		X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEG	7/28/16	1610	
<i>[Signature]</i>	GEG	7/28/16	1610	
<i>[Signature]</i>	GEI	7/28/16	1530	
<i>[Signature]</i>	Alpha	7/29/16	17:45	
<i>[Signature]</i>	Alpha	7/29/16	17:45	
<i>[Signature]</i>	Alpha	7/25/16	1745	



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 11, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-015

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 1, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 11, 2016
Samples Submitted: August 1, 2016
Laboratory Reference: 1608-015
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 1, 2016 and received by the laboratory on August 1, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Total Metals EPA 6010C/7471B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for barium are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 104 %.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 11, 2016
Samples Submitted: August 1, 2016
Laboratory Reference: 1608-015
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW3S-1-2	08-015-01	Soil	8-1-16	8-1-16	
A6-MW3S-4-4.5	08-015-02	Soil	8-1-16	8-1-16	
A6-MW3S-13-14	08-015-04	Soil	8-1-16	8-1-16	
A6-MW3S-17-18	08-015-05	Soil	8-1-16	8-1-16	
A6-MW3S-19-20	08-015-06	Soil	8-1-16	8-1-16	
A6-MW3S-26-27	08-015-07	Soil	8-1-16	8-1-16	
A6-MW3S-27-28	08-015-08	Soil	8-1-16	8-1-16	
Dup1-20160801	08-015-10	Soil	8-1-16	8-1-16	



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-1-2					
Laboratory ID:	08-015-01					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-4-16	8-4-16	
Diesel Range Organics	ND	56	NWTPH-HCID	8-4-16	8-4-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Client ID:	A6-MW3S-4-4.5					
Laboratory ID:	08-015-02					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-4-16	8-4-16	
Diesel Range Organics	ND	59	NWTPH-HCID	8-4-16	8-4-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-1-2					
Laboratory ID:	08-015-01					
Dichlorodifluoromethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0040	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0040	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0040	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-1-2					
Laboratory ID:	08-015-01					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-4-4.5					
Laboratory ID:	08-015-02					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0064	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-4-4.5					
Laboratory ID:	08-015-02					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-13-14					
Laboratory ID:	08-015-04					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0065	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-13-14					
Laboratory ID:	08-015-04					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-17-18					
Laboratory ID:	08-015-05					
Dichlorodifluoromethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0039	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0039	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0039	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0055	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-17-18					
Laboratory ID:	08-015-05					
1,1,2-Trichloroethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00078	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-19-20					
Laboratory ID:	08-015-06					
Dichlorodifluoromethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0032	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0032	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0032	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-19-20					
Laboratory ID:	08-015-06					
1,1,2-Trichloroethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00063	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-26-27					
Laboratory ID:	08-015-07					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0066	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-26-27					
Laboratory ID:	08-015-07					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-27-28					
Laboratory ID:	08-015-08					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0064	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-27-28					
Laboratory ID:	08-015-08					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160801					
Laboratory ID:	08-015-10					
Dichlorodifluoromethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0042	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0042	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0042	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160801					
Laboratory ID:	08-015-10					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-1-2					
Laboratory ID:	08-015-01					
Naphthalene	0.049	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
2-Methylnaphthalene	0.053	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
1-Methylnaphthalene	0.040	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Acenaphthylene	0.0089	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Acenaphthene	0.020	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Fluorene	0.028	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Phenanthrene	0.16	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Anthracene	0.023	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Fluoranthene	0.11	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Pyrene	0.12	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[a]anthracene	0.054	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Chrysene	0.061	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[b]fluoranthene	0.055	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo(j,k)fluoranthene	0.019	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[a]pyrene	0.047	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Indeno(1,2,3-c,d)pyrene	0.033	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[g,h,i]perylene	0.033	0.0075	EPA 8270D/SIM	8-8-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>70</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-4-4.5					
Laboratory ID:	08-015-02					
Naphthalene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
2-Methylnaphthalene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
1-Methylnaphthalene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Acenaphthylene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Acenaphthene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Fluorene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Phenanthrene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Anthracene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Fluoranthene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Pyrene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[a]anthracene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Chrysene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[b]fluoranthene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo(j,k)fluoranthene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[a]pyrene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Dibenz[a,h]anthracene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[g,h,i]perylene	ND	0.0078	EPA 8270D/SIM	8-8-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>61</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>71</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>74</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-015-01					
Client ID:	A6-MW3S-1-2					
Arsenic	ND	11	6010C	8-4-16	8-4-16	
Barium	89	2.8	6010C	8-4-16	8-4-16	
Cadmium	ND	0.56	6010C	8-4-16	8-4-16	
Chromium	45	0.56	6010C	8-4-16	8-4-16	
Lead	57	5.6	6010C	8-4-16	8-4-16	
Mercury	ND	0.28	7471B	8-4-16	8-4-16	
Selenium	ND	11	6010C	8-4-16	8-4-16	
Silver	ND	1.1	6010C	8-4-16	8-4-16	

Lab ID:	08-015-02					
Client ID:	A6-MW3S-4-4.5					
Arsenic	ND	12	6010C	8-4-16	8-4-16	
Barium	61	2.9	6010C	8-4-16	8-4-16	
Cadmium	ND	0.59	6010C	8-4-16	8-4-16	
Chromium	50	0.59	6010C	8-4-16	8-4-16	
Lead	ND	5.9	6010C	8-4-16	8-4-16	
Mercury	ND	0.29	7471B	8-4-16	8-4-16	
Selenium	ND	12	6010C	8-4-16	8-4-16	
Silver	ND	1.2	6010C	8-4-16	8-4-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0804S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-4-16	8-4-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-4-16	8-4-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-4-16	8-4-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>101</i>	<i>50-150</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0805S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Chloromethane	ND	0.0050	EPA 8260C	8-5-16	8-5-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Bromomethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Chloroethane	ND	0.0050	EPA 8260C	8-5-16	8-5-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Iodomethane	ND	0.0050	EPA 8260C	8-5-16	8-5-16	
Methylene Chloride	ND	0.0071	EPA 8260C	8-5-16	8-5-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Chloroform	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-5-16	8-5-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0805S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Bromoform	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-5-16	8-5-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-5-16	8-5-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-5-16	8-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0805S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0449	0.0445	0.0500	0.0500	90	89	68-126	1	15	
Benzene	0.0493	0.0489	0.0500	0.0500	99	98	75-121	1	15	
Trichloroethene	0.0495	0.0525	0.0500	0.0500	99	105	75-120	6	15	
Toluene	0.0531	0.0538	0.0500	0.0500	106	108	80-120	1	15	
Chlorobenzene	0.0515	0.0523	0.0500	0.0500	103	105	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	95	76-131			
<i>Toluene-d8</i>					96	99	80-126			
<i>4-Bromofluorobenzene</i>					95	100	60-146			



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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-8-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>83</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>30 - 117</i>				



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		RPD	Limit	Flags
					Result	Recovery	Limits					
MATRIX SPIKES												
Laboratory ID:	08-031-02											
	MS	MSD	MS	MSD		MS	MSD					
Naphthalene	0.119	0.128	0.167	0.167	0.0113	64	70	35 - 114	7		28	
Acenaphthylene	0.130	0.133	0.167	0.167	ND	78	80	42 - 116	2		32	
Acenaphthene	0.119	0.123	0.167	0.167	0.00862	66	68	39 - 113	3		30	
Fluorene	0.128	0.134	0.167	0.167	ND	77	80	34 - 121	5		29	
Phenanthrene	0.130	0.135	0.167	0.167	ND	78	81	25 - 122	4		32	
Anthracene	0.137	0.145	0.167	0.167	ND	82	87	31 - 140	6		35	
Fluoranthene	0.140	0.147	0.167	0.167	ND	84	88	24 - 128	5		31	
Pyrene	0.143	0.148	0.167	0.167	ND	86	89	26 - 123	3		35	
Benzo[a]anthracene	0.150	0.155	0.167	0.167	ND	90	93	28 - 133	3		31	
Chrysene	0.141	0.150	0.167	0.167	ND	84	90	27 - 124	6		31	
Benzo[b]fluoranthene	0.137	0.151	0.167	0.167	ND	82	90	30 - 122	10		33	
Benzo(j,k)fluoranthene	0.139	0.143	0.167	0.167	ND	83	86	26 - 122	3		31	
Benzo[a]pyrene	0.137	0.145	0.167	0.167	ND	82	87	32 - 128	6		34	
Indeno(1,2,3-c,d)pyrene	0.139	0.144	0.167	0.167	ND	83	86	30 - 118	4		30	
Dibenz[a,h]anthracene	0.129	0.131	0.167	0.167	ND	77	78	35 - 115	2		33	
Benzo[g,h,i]perylene	0.141	0.144	0.167	0.167	ND	84	86	29 - 119	2		29	
<i>Surrogate:</i>												
2-Fluorobiphenyl						65	68	32 - 115				
Pyrene-d10						78	82	30 - 124				
Terphenyl-d14						78	83	30 - 117				



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-4-16
 Date Analyzed: 8-4-16
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0804SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: August 11, 2016
Samples Submitted: August 1, 2016
Laboratory Reference: 1608-015
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-4-16
Date Analyzed: 8-4-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0804S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-4-16

Date Analyzed: 8-4-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-013-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	30.6	29.9	2	10	
Barium	155	157	1	2.5	
Cadmium	ND	0.535	NA	0.50	
Chromium	37.6	36.1	4	0.50	
Lead	61.8	65.3	6	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: August 11, 2016
Samples Submitted: August 1, 2016
Laboratory Reference: 1608-015
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-4-16

Date Analyzed: 8-4-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-056-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: August 11, 2016
 Samples Submitted: August 1, 2016
 Laboratory Reference: 1608-015
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-4-16

Date Analyzed: 8-4-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-013-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	119	89	125	94	4	
Barium	100	281	126	289	134	3	V
Cadmium	50.0	46.3	93	46.8	94	1	
Chromium	100	134	97	132	94	2	
Lead	250	292	92	291	92	0	
Selenium	100	93.7	94	91.4	91	3	
Silver	25.0	21.3	85	21.3	85	0	



Date of Report: August 11, 2016
Samples Submitted: August 1, 2016
Laboratory Reference: 1608-015
Project: 0183-109-01-T500

TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL

Date Extracted: 8-4-16

Date Analyzed: 8-4-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-056-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.496	99	0.495	99	0	



Date of Report: August 11, 2016
Samples Submitted: August 1, 2016
Laboratory Reference: 1608-015
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-4-16

Client ID	Lab ID	% Moisture
A6-MW3S-1-2	08-015-01	11
A6-MW3S-4-4.5	08-015-02	15
A6-MW3S-13-14	08-015-04	7
A6-MW3S-17-18	08-015-05	11
A6-MW3S-19-20	08-015-06	10
A6-MW3S-26-27	08-015-07	9
A6-MW3S-27-28	08-015-08	7
Dup1-20160801	08-015-10	9





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 8, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-055

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 3, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 8, 2016
Samples Submitted: August 3, 2016
Laboratory Reference: 1608-055
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 2, 2016 and received by the laboratory on August 3, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 8, 2016
Samples Submitted: August 3, 2016
Laboratory Reference: 1608-055
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW3D-6-7	08-055-02	Soil	8-2-16	8-3-16	
A11-MW3D-12-12.5	08-055-03	Soil	8-2-16	8-3-16	
A11-MW3D-12.5-13	08-055-04	Soil	8-2-16	8-3-16	
A11-MW3D-21-22	08-055-06	Soil	8-2-16	8-3-16	
A11-MW3D-31-32	08-055-08	Soil	8-2-16	8-3-16	
A11-MW3D-44-45	08-055-10	Soil	8-2-16	8-3-16	
A11-MW3D-49-49.5	08-055-11	Soil	8-2-16	8-3-16	
A11-MW3D-51-52	08-055-12	Soil	8-2-16	8-3-16	
A11-MW3D-62-63	08-055-14	Soil	8-2-16	8-3-16	
A11-MW3D-72-73	08-055-17	Soil	8-2-16	8-3-16	



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-6-7					
Laboratory ID:	08-055-02					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0070	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-6-7					
Laboratory ID:	08-055-02					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-12-12.5					
Laboratory ID:	08-055-03					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0055	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0055	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0055	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0078	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-12-12.5					
Laboratory ID:	08-055-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-12.5-13					
Laboratory ID:	08-055-04					
Dichlorodifluoromethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0044	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0044	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0044	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0062	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-12.5-13					
Laboratory ID:	08-055-04					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-21-22					
Laboratory ID:	08-055-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0058	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0058	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0058	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0083	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-21-22					
Laboratory ID:	08-055-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-31-32					
Laboratory ID:	08-055-08					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-31-32					
Laboratory ID:	08-055-08					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-44-45					
Laboratory ID:	08-055-10					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-44-45					
Laboratory ID:	08-055-10					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-49-49.5					
Laboratory ID:	08-055-11					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0070	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-49-49.5					
Laboratory ID:	08-055-11					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-51-52					
Laboratory ID:	08-055-12					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0066	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-51-52					
Laboratory ID:	08-055-12					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-62-63					
Laboratory ID:	08-055-14					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0052	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0052	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0052	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-62-63					
Laboratory ID:	08-055-14					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-72-73					
Laboratory ID:	08-055-17					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0079	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-72-73					
Laboratory ID:	08-055-17					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0806S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chloromethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromomethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chloroethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Iodomethane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
Methylene Chloride	ND	0.0071	EPA 8260C	8-6-16	8-6-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chloroform	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0806S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromoform	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-6-16	8-6-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-6-16	8-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0808S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0806S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0455	0.0440	0.0500	0.0500	91	88	68-126	3	15	
Benzene	0.0491	0.0489	0.0500	0.0500	98	98	75-121	0	15	
Trichloroethene	0.0501	0.0497	0.0500	0.0500	100	99	75-120	1	15	
Toluene	0.0523	0.0541	0.0500	0.0500	105	108	80-120	3	15	
Chlorobenzene	0.0497	0.0499	0.0500	0.0500	99	100	76-120	0	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	94	76-131			
Toluene-d8					97	100	80-126			
4-Bromofluorobenzene					98	99	60-146			



Date of Report: August 8, 2016
 Samples Submitted: August 3, 2016
 Laboratory Reference: 1608-055
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0808S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0436	0.0437	0.0500	0.0500	87	87	68-126	0	15	
Benzene	0.0486	0.0478	0.0500	0.0500	97	96	75-121	2	15	
Trichloroethene	0.0521	0.0498	0.0500	0.0500	104	100	75-120	5	15	
Toluene	0.0543	0.0519	0.0500	0.0500	109	104	80-120	5	15	
Chlorobenzene	0.0499	0.0505	0.0500	0.0500	100	101	76-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					100	95	76-131			
Toluene-d8					101	97	80-126			
4-Bromofluorobenzene					99	97	60-146			



Date of Report: August 8, 2016
Samples Submitted: August 3, 2016
Laboratory Reference: 1608-055
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-5-16

Client ID	Lab ID	% Moisture
A11-MW3D-6-7	08-055-02	7
A11-MW3D-12-12.5	08-055-03	11
A11-MW3D-12.5-13	08-055-04	10
A11-MW3D-21-22	08-055-06	9
A11-MW3D-31-32	08-055-08	14
A11-MW3D-44-45	08-055-10	9
A11-MW3D-49-49.5	08-055-11	13
A11-MW3D-51-52	08-055-12	21
A11-MW3D-62-63	08-055-14	5
A11-MW3D-72-73	08-055-17	12





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 11, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-074

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 5, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 11, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-074
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 3, 2016 and received by the laboratory on August 5, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, (except as noted below) samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Samples A11-MW3D-79-80 and A11-MW3D-83-84 were received by the laboratory in pre-weighed 40 mL VOA vials, but outside 48 hours from the time of sample collection. They were stored in a freezer at between -7°C and -20°C immediately upon receipt.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 11, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-074
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW3D-79-80	08-074-01	Soil	8-3-16	8-5-16	
A11-MW3D-83-84	08-074-02	Soil	8-3-16	8-5-16	
A11-MW3D-91-92	08-074-03	Soil	8-3-16	8-5-16	
A11-MW3D-94-95	08-074-04	Soil	8-3-16	8-5-16	
A11-MW3D-99-100	08-074-05	Soil	8-3-16	8-5-16	



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-074
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-79-80					
Laboratory ID:	08-074-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0057	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0057	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0057	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.010	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-074
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-79-80					
Laboratory ID:	08-074-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	76-131				
<i>Toluene-d8</i>	99	80-126				
<i>4-Bromofluorobenzene</i>	103	60-146				



Date of Report: August 11, 2016
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 Laboratory Reference: 1608-074
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-83-84					
Laboratory ID:	08-074-02					
Dichlorodifluoromethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0087	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-83-84					
Laboratory ID:	08-074-02					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-91-92					
Laboratory ID:	08-074-03					
Dichlorodifluoromethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0088	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-91-92					
Laboratory ID:	08-074-03					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-94-95					
Laboratory ID:	08-074-04					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-94-95					
Laboratory ID:	08-074-04					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-99-100					
Laboratory ID:	08-074-05					
Dichlorodifluoromethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0039	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0039	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0039	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0069	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-99-100					
Laboratory ID:	08-074-05					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-074
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-074
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-074
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0808S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0436	0.0437	0.0500	0.0500	87	87	68-126	0	15	
Benzene	0.0486	0.0478	0.0500	0.0500	97	96	75-121	2	15	
Trichloroethene	0.0521	0.0498	0.0500	0.0500	104	100	75-120	5	15	
Toluene	0.0543	0.0519	0.0500	0.0500	109	104	80-120	5	15	
Chlorobenzene	0.0499	0.0505	0.0500	0.0500	100	101	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>95</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>97</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>97</i>	<i>60-146</i>			



Date of Report: August 11, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-074
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-8-16

Client ID	Lab ID	% Moisture
A11-MW3D-79-80	08-074-01	15
A11-MW3D-83-84	08-074-02	19
A11-MW3D-91-92	08-074-03	15
A11-MW3D-94-95	08-074-04	14
A11-MW3D-99-100	08-074-05	8





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-074**

Company: GeoEngineers
 Project Number: 0183-109-01 T520
 Project Name: WT-2016 RI
 Project Manager: Tricia DeDome
 Sampled by: SSD

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	A11-MW3D-79-80	8/3/16	1050	S	4
2	A11-MW3D-83-84		1055		
3	A11-MW3D-91-92		1135		
4	A11-MW3D-94-95		1140		
5	A11-MW3D-99-100		1145		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
4						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>

Signature	Company	Date	Time	Comments/Special Instructions
<u>Tricia DeDome</u>	<u>GEI</u>	<u>8/5/16</u>	<u>8:12A</u>	<input checked="" type="checkbox"/> Added 8/5/16 STA
<u>Tricia DeDome</u>	<u>GEI</u>	<u>8/5/16</u>	<u>8:12A</u>	
<u>Tricia DeDome</u>	<u>GEI</u>	<u>8/5/16</u>	<u>11:25A</u>	
<u>Tricia DeDome</u>	<u>GEI</u>	<u>8/5/16</u>	<u>11:25</u>	

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Relinquished _____ Received _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 11, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-075

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 5, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 11, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-075
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 4, 2016 and received by the laboratory on August 5, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 11, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-075
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW5D-0-1	08-075-01	Soil	8-4-16	8-5-16	
DUP 1-20160804	08-075-02	Soil	8-4-16	8-5-16	
A11-MW5D-9-10	08-075-04	Soil	8-4-16	8-5-16	
A11-MW5D-13.5-14	08-075-05	Soil	8-4-16	8-5-16	
A11-MW5D-19-20	08-075-06	Soil	8-4-16	8-5-16	
A11-MW5D-29-30	08-075-09	Soil	8-4-16	8-5-16	
A11-MW5D-40-41	08-075-11	Soil	8-4-16	8-5-16	
A11-MW5D-53-54	08-075-13	Soil	8-4-16	8-5-16	
DUP 2-20160804	08-075-14	Soil	8-4-16	8-5-16	



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-075
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-0-1					
Laboratory ID:	08-075-01					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0052	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0052	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0052	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0092	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-075
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-0-1					
Laboratory ID:	08-075-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	76-131				
<i>Toluene-d8</i>	97	80-126				
<i>4-Bromofluorobenzene</i>	93	60-146				



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-075
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160804					
Laboratory ID:	08-075-02					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0084	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160804					
Laboratory ID:	08-075-02					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-9-10					
Laboratory ID:	08-075-04					
Dichlorodifluoromethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0041	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0041	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0041	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0073	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-9-10					
Laboratory ID:	08-075-04					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-13.5-14					
Laboratory ID:	08-075-05					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0048	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0048	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0048	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0085	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-13.5-14					
Laboratory ID:	08-075-05					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-19-20					
Laboratory ID:	08-075-06					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0042	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0042	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0042	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0075	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-19-20					
Laboratory ID:	08-075-06					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-29-30					
Laboratory ID:	08-075-09					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0080	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-29-30					
Laboratory ID:	08-075-09					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-40-41					
Laboratory ID:	08-075-11					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0083	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-40-41					
Laboratory ID:	08-075-11					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-53-54					
Laboratory ID:	08-075-13					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0087	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-53-54					
Laboratory ID:	08-075-13					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP2-20160804					
Laboratory ID:	08-075-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0054	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0054	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0054	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0097	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP2-20160804					
Laboratory ID:	08-075-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0808S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloromethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Iodomethane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
Methylene Chloride	ND	0.0089	EPA 8260C	8-8-16	8-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chloroform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-075
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0808S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromoform	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-8-16	8-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-8-16	8-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: August 11, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-075
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0808S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0436	0.0437	0.0500	0.0500	87	87	68-126	0	15	
Benzene	0.0486	0.0478	0.0500	0.0500	97	96	75-121	2	15	
Trichloroethene	0.0521	0.0498	0.0500	0.0500	104	100	75-120	5	15	
Toluene	0.0543	0.0519	0.0500	0.0500	109	104	80-120	5	15	
Chlorobenzene	0.0499	0.0505	0.0500	0.0500	100	101	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>95</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>97</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>97</i>	<i>60-146</i>			



Date of Report: August 11, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-075
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-8-16

Client ID	Lab ID	% Moisture
A11-MW5D-0-1	08-075-01	10
DUP1-20160804	08-075-02	11
A11-MW5D-9-10	08-075-04	11
A11-MW5D-13.5-14	08-075-05	5
A11-MW5D-19-20	08-075-06	6
A11-MW5D-29-30	08-075-09	7
A11-MW5D-40-41	08-075-11	4
A11-MW5D-53-54	08-075-13	10
DUP2-20160804	08-075-14	10





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days) (TPH analysis 5 Days)

(other) _____

Laboratory Number:

08-075

Company: GeoEngineers
 Project Number: 0183-109-01 T500
 Project Name: WWT - 2016 - RI
 Project Manager: Tricia DeCme
 Sampled by: JCD/RC

Lab ID	Sample Identification	Date Sampled	Time Applied	Matrix
1	A11-MW5D-0-1	8/4/16	1230	S
2	DUP1-20160804		0700	
3	A11-MW5D-4-4.5		1125	
4	A11-MW5D-9-10		1130	
5	A11-MW5D-13.5-14		1145	
6	A11-MW5D-19-20		1150	
7	A11-MW5D-20-21		1210	
8	A11-MW5D-24-25		1215	
9	A11-MW5D-29-30		1220	
10	A11-MW5D-34-35		1300	

Number of Containers	Laboratory Number: 08-075																
	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260C	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 10, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-00-T500
Laboratory Reference No. 1608-085

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 5, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 10, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-085
Project: 0183-109-00-T500

Case Narrative

Samples were collected on August 5, 2016 and received by the laboratory on August 5, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 10, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-085
Project: 0183-109-00-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW5D-69-70	08-085-02	Soil	8-5-16	8-5-16	
A11-MW5D-79-80	08-085-04	Soil	8-5-16	8-5-16	
A11-MW5D-86-86.5	08-085-05	Soil	8-5-16	8-5-16	
A11-MW5D-86.5-87	08-085-06	Soil	8-5-16	8-5-16	
A11-MW5D-94-95	08-085-07	Soil	8-5-16	8-5-16	



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 Project: 0183-109-00-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-69-70					
Laboratory ID:	08-085-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chloromethane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromomethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chloroethane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Iodomethane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
Methylene Chloride	ND	0.0083	EPA 8260C	8-9-16	8-9-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chloroform	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-69-70					
Laboratory ID:	08-085-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromoform	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-79-80					
Laboratory ID:	08-085-04					
Dichlorodifluoromethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Chloromethane	ND	0.0036	EPA 8260C	8-9-16	8-9-16	
Vinyl Chloride	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Bromomethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Chloroethane	ND	0.0036	EPA 8260C	8-9-16	8-9-16	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Iodomethane	ND	0.0036	EPA 8260C	8-9-16	8-9-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-9-16	8-9-16	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Bromochloromethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Chloroform	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Trichloroethene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Dibromomethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Bromodichloromethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	8-9-16	8-9-16	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-79-80					
Laboratory ID:	08-085-04					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Tetrachloroethene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Dibromochloromethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Chlorobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Bromoform	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Bromobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
2-Chlorotoluene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
4-Chlorotoluene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	8-9-16	8-9-16	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	8-9-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: August 10, 2016
 Samples Submitted: August 5, 2016
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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-86-86.5					
Laboratory ID:	08-085-05					
Dichlorodifluoromethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Chloromethane	ND	0.0040	EPA 8260C	8-9-16	8-9-16	
Vinyl Chloride	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Bromomethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Chloroethane	ND	0.0040	EPA 8260C	8-9-16	8-9-16	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Iodomethane	ND	0.0040	EPA 8260C	8-9-16	8-9-16	
Methylene Chloride	ND	0.0067	EPA 8260C	8-9-16	8-9-16	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Bromochloromethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Chloroform	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Trichloroethene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Dibromomethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Bromodichloromethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-9-16	8-9-16	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-86-86.5					
Laboratory ID:	08-085-05					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Tetrachloroethene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Dibromochloromethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Chlorobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Bromoform	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Bromobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
2-Chlorotoluene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
4-Chlorotoluene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-9-16	8-9-16	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	8-9-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 10, 2016
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-86.5-87					
Laboratory ID:	08-085-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Chloromethane	ND	0.0058	EPA 8260C	8-9-16	8-9-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Bromomethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Chloroethane	ND	0.0058	EPA 8260C	8-9-16	8-9-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Iodomethane	ND	0.0058	EPA 8260C	8-9-16	8-9-16	
Methylene Chloride	ND	0.0097	EPA 8260C	8-9-16	8-9-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Chloroform	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-9-16	8-9-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-86.5-87					
Laboratory ID:	08-085-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Bromoform	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	8-9-16	8-9-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-9-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



Date of Report: August 10, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-085
 Project: 0183-109-00-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-94-95					
Laboratory ID:	08-085-07					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Chloromethane	ND	0.0035	EPA 8260C	8-9-16	8-9-16	
Vinyl Chloride	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Bromomethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Chloroethane	ND	0.0035	EPA 8260C	8-9-16	8-9-16	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Iodomethane	ND	0.0035	EPA 8260C	8-9-16	8-9-16	
Methylene Chloride	ND	0.0057	EPA 8260C	8-9-16	8-9-16	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Bromochloromethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Chloroform	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Trichloroethene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Dibromomethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Bromodichloromethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-9-16	8-9-16	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	



Date of Report: August 10, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-085
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HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-94-95					
Laboratory ID:	08-085-07					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Tetrachloroethene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Dibromochloromethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Chlorobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Bromoform	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Bromobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
2-Chlorotoluene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
4-Chlorotoluene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-9-16	8-9-16	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	8-9-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>60-146</i>				



Date of Report: August 10, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-085
 Project: 0183-109-00-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0809S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chloromethane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromomethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chloroethane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Iodomethane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
Methylene Chloride	ND	0.0083	EPA 8260C	8-9-16	8-9-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chloroform	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	



Date of Report: August 10, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-085
 Project: 0183-109-00-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0809S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromoform	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-9-16	8-9-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-9-16	8-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: August 10, 2016
 Samples Submitted: August 5, 2016
 Laboratory Reference: 1608-085
 Project: 0183-109-00-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0809S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0416	0.0423	0.0500	0.0500	83	85	68-126	2	15	
Benzene	0.0464	0.0482	0.0500	0.0500	93	96	75-121	4	15	
Trichloroethene	0.0500	0.0513	0.0500	0.0500	100	103	75-120	3	15	
Toluene	0.0512	0.0530	0.0500	0.0500	102	106	80-120	3	15	
Chlorobenzene	0.0497	0.0503	0.0500	0.0500	99	101	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	98	76-131			
<i>Toluene-d8</i>					97	97	80-126			
<i>4-Bromofluorobenzene</i>					97	99	60-146			



Date of Report: August 10, 2016
Samples Submitted: August 5, 2016
Laboratory Reference: 1608-085
Project: 0183-109-00-T500

% MOISTURE

Date Analyzed: 8-8-16

Client ID	Lab ID	% Moisture
A11-MW5D-69-70	08-085-02	7
A11-MW5D-79-80	08-085-04	13
A11-MW5D-86-86.5	08-085-05	13
A11-MW5D-86.5-87	08-085-06	27
A11-MW5D-94-95	08-085-07	13





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 16, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-128

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 9, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 16, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-128
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 8, 2016 and received by the laboratory on August 9, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 16, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-128
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW6S-9-10	08-128-01	Soil	8-8-16	8-9-16	
A11-MW6S-10-11	08-128-02	Soil	8-8-16	8-9-16	
A11-MW6S-17-17.5	08-128-03	Soil	8-8-16	8-9-16	
A11-MW6S-19-20	08-128-06	Soil	8-8-16	8-9-16	
A11-MW6S-17.5-18.5	08-128-07	Soil	8-8-16	8-9-16	
A11-MW6S-15-15.5	08-128-08	Soil	8-8-16	8-9-16	



Date of Report: August 16, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-128
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-9-10					
Laboratory ID:	08-128-01					
Dichlorodifluoromethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	



Date of Report: August 16, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-128
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-9-10					
Laboratory ID:	08-128-01					
1,1,2-Trichloroethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.00064	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-10-11					
Laboratory ID:	08-128-02					
Dichlorodifluoromethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0025	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0025	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0025	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0036	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0025	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-10-11					
Laboratory ID:	08-128-02					
1,1,2-Trichloroethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0025	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0025	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.00049	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-17-17.5					
Laboratory ID:	08-128-03					
Dichlorodifluoromethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-17-17.5					
Laboratory ID:	08-128-03					
1,1,2-Trichloroethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.00058	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-19-20					
Laboratory ID:	08-128-06					
Dichlorodifluoromethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0046	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-19-20					
Laboratory ID:	08-128-06					
1,1,2-Trichloroethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.00063	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-17.5-18.5					
Laboratory ID:	08-128-07					
Dichlorodifluoromethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0042	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-17.5-18.5					
Laboratory ID:	08-128-07					
1,1,2-Trichloroethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0029	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.00057	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				



Date of Report: August 16, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-128
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-15-15.5					
Laboratory ID:	08-128-08					
Dichlorodifluoromethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0031	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0031	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0031	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0031	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-15-15.5					
Laboratory ID:	08-128-08					
1,1,2-Trichloroethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0031	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.00062	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 16, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0811S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Chloromethane	ND	0.0050	EPA 8260C	8-11-16	8-11-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Bromomethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Chloroethane	ND	0.0050	EPA 8260C	8-11-16	8-11-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Iodomethane	ND	0.0050	EPA 8260C	8-11-16	8-11-16	
Methylene Chloride	ND	0.0073	EPA 8260C	8-11-16	8-11-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Chloroform	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-11-16	8-11-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	



Date of Report: August 16, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-128
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0811S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Bromoform	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-11-16	8-11-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-11-16	8-11-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: August 16, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-128
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0811S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0387	0.0412	0.0500	0.0500	77	82	68-126	6	15	
Benzene	0.0455	0.0466	0.0500	0.0500	91	93	75-121	2	15	
Trichloroethene	0.0511	0.0505	0.0500	0.0500	102	101	75-120	1	15	
Toluene	0.0519	0.0530	0.0500	0.0500	104	106	80-120	2	15	
Chlorobenzene	0.0496	0.0497	0.0500	0.0500	99	99	76-120	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>102</i>	<i>95</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>97</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>107</i>	<i>98</i>	<i>60-146</i>			



Date of Report: August 16, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-128
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-11-16

Client ID	Lab ID	% Moisture
A11-MW6S-9-10	08-128-01	10
A11-MW6S-10-11	08-128-02	12
A11-MW6S-17-17.5	08-128-03	10
A11-MW6S-19-20	08-128-06	7
A11-MW6S-17.5-18.5	08-128-07	7
A11-MW6S-15-15.5	08-128-08	14





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 183-109-01-T500
Laboratory Reference No. 1608-129

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 9, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

Case Narrative

Samples were collected on August 9, 2016 and received by the laboratory on August 9, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

All four internal standards did not meet acceptance criteria for sample DUP1-20160809. The sample was re-analyzed with similar results. Leaks within the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. As per Method 5035A requirements, the purge-and-trap system utilized for low-level analysis at OnSite Environmental, Inc. has a stir motor that spins a magnetic stir bar within the VOA thereby agitating the sample and providing more efficient purging. However, since both VOA vials containing stir bars were consumed, the sample was analyzed a third time for low-level analysis using a non-stir VOA. All four internal standards met acceptance criteria from the third analysis and therefore that data was used for the report.

Volatiles EPA 8260C (water) Analysis

Per client's request, sample TB-20160809 was analyzed outside of the holding time.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW1D-0-1	08-129-01	Soil	8-9-16	8-9-16	
A6-MW1D-1-2	08-129-02	Soil	8-9-16	8-9-16	
A6-MW1D-2-3	08-129-03	Soil	8-9-16	8-9-16	
A6-MW1D-3-4	08-129-04	Soil	8-9-16	8-9-16	
A6-MW1D-4-5	08-129-05	Soil	8-9-16	8-9-16	
A6-MW1D-10-11	08-129-09	Soil	8-9-16	8-9-16	
A6-MW1D-14-15	08-129-10	Soil	8-9-16	8-9-16	
A6-MW1D-19-20	08-129-11	Soil	8-9-16	8-9-16	
A6-MW1D-20-21	08-129-12	Soil	8-9-16	8-9-16	
A6-MW1D-23-24	08-129-13	Soil	8-9-16	8-9-16	
A6-MW1D-28-29	08-129-14	Soil	8-9-16	8-9-16	
A6-MW1D-30-31	08-129-15	Soil	8-9-16	8-9-16	
A6-MW1D-35-36	08-129-16	Soil	8-9-16	8-9-16	
A6-MW1D-38-39	08-129-17	Soil	8-9-16	8-9-16	
A6-MW1D-40-41	08-129-18	Soil	8-9-16	8-9-16	
A6-MW1D-44-45	08-129-19	Soil	8-9-16	8-9-16	
DUP1-20160809	08-129-20	Soil	8-9-16	8-9-16	
TB-20160809	08-129-21	Water	8-9-16	8-9-16	



Date of Report: September 13, 2016
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 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-0-1					
Laboratory ID:	08-129-01					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-11-16	8-11-16	
Diesel Range Organics	ND	57	NWTPH-HCID	8-11-16	8-11-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				

Client ID:	A6-MW1D-1-2					
Laboratory ID:	08-129-02					
Gasoline Range Organics	ND	24	NWTPH-HCID	8-11-16	8-11-16	
Diesel Range Organics	ND	59	NWTPH-HCID	8-11-16	8-11-16	
Lube Oil	Detected	120	NWTPH-HCID	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				



Date of Report: September 13, 2016
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 Project: 183-109-01-T500

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-1-2					
Laboratory ID:	08-129-02					
Diesel Range Organics	64	30	NWTPH-Dx	8-16-16	8-16-16	
Lube Oil	410	59	NWTPH-Dx	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	122	50-150				



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
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 Project: 183-109-01-T500

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-0-1					
Laboratory ID:	08-129-01					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0064	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0082	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0061	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
Toluene	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-0-1					
Laboratory ID:	08-129-01					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0019	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-1-2					
Laboratory ID:	08-129-02					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0074	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0095	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0071	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
Toluene	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-1-2					
Laboratory ID:	08-129-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0022	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-4-5					
Laboratory ID:	08-129-05					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0065	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0084	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-4-5					
Laboratory ID:	08-129-05					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00097	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.063	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.063	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.31	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.31	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.063	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-10-11					
Laboratory ID:	08-129-09					
Dichlorodifluoromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0052	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0070	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-10-11					
Laboratory ID:	08-129-09					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	0.0052	0.00080	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-14-15					
Laboratory ID:	08-129-10					
Dichlorodifluoromethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0047	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0036	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0036	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	0.0018	0.00072	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-14-15					
Laboratory ID:	08-129-10					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	0.0019	0.00072	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-19-20					
Laboratory ID:	08-129-11					
Dichlorodifluoromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0052	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0070	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	0.0013	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-19-20					
Laboratory ID:	08-129-11					
1,1,2-Trichloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	0.0031	0.00080	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00080	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-20-21					
Laboratory ID:	08-129-12					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0055	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0042	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0042	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0074	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-20-21					
Laboratory ID:	08-129-12					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	0.0032	0.00084	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-28-29					
Laboratory ID:	08-129-14					
Dichlorodifluoromethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0044	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0034	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0034	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0034	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-28-29					
Laboratory ID:	08-129-14					
1,1,2-Trichloroethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0034	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0034	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00068	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	76-131				
<i>Toluene-d8</i>	103	80-126				
<i>4-Bromofluorobenzene</i>	97	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-30-31					
Laboratory ID:	08-129-15					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0073	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0099	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	0.015	0.0011	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-30-31					
Laboratory ID:	08-129-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-35-36					
Laboratory ID:	08-129-16					
Dichlorodifluoromethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0040	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0031	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0031	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0055	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	0.0018	0.00062	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0031	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-35-36					
Laboratory ID:	08-129-16					
1,1,2-Trichloroethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0031	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0031	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00062	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-38-39					
Laboratory ID:	08-129-17					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0063	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	0.0038	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-38-39					
Laboratory ID:	08-129-17					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-40-41					
Laboratory ID:	08-129-18					
Dichlorodifluoromethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0042	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0032	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0032	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	0.0054	0.00064	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-40-41					
Laboratory ID:	08-129-18					
1,1,2-Trichloroethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0032	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00064	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-44-45					
Laboratory ID:	08-129-19					
Dichlorodifluoromethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0056	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0043	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0043	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0076	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	0.0011	0.00086	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-44-45					
Laboratory ID:	08-129-19					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160809					
Laboratory ID:	08-129-20					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0068	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0048	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0048	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0048	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	0.0047	0.00097	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160809					
Laboratory ID:	08-129-20					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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 Project: 183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-0-1					
Laboratory ID:	08-129-01					
Naphthalene	0.031	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
2-Methylnaphthalene	0.020	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
1-Methylnaphthalene	0.018	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Acenaphthylene	0.0098	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Fluorene	ND	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Phenanthrene	0.054	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Anthracene	0.0087	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Fluoranthene	0.058	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Pyrene	0.061	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[a]anthracene	0.034	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Chrysene	0.045	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[b]fluoranthene	0.051	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo(j,k)fluoranthene	0.014	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[a]pyrene	0.038	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Indeno(1,2,3-c,d)pyrene	0.029	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Dibenz[a,h]anthracene	0.0078	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[g,h,i]perylene	0.036	0.0076	EPA 8270D/SIM	8-15-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>30 - 117</i>				



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 Project: 183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-1-2					
Laboratory ID:	08-129-02					
Naphthalene	0.11	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
2-Methylnaphthalene	0.089	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
1-Methylnaphthalene	0.077	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Acenaphthylene	0.028	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Acenaphthene	0.0090	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Fluorene	0.010	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Phenanthrene	0.15	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Anthracene	0.022	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Fluoranthene	0.14	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Pyrene	0.15	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[a]anthracene	0.089	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Chrysene	0.10	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[b]fluoranthene	0.14	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo(j,k)fluoranthene	0.035	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[a]pyrene	0.092	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Indeno(1,2,3-c,d)pyrene	0.075	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Dibenz[a,h]anthracene	0.018	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
Benzo[g,h,i]perylene	0.091	0.0079	EPA 8270D/SIM	8-15-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>75</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-2-3					
Laboratory ID:	08-129-03					
Naphthalene	0.097	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
2-Methylnaphthalene	0.11	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
1-Methylnaphthalene	0.11	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Acenaphthylene	0.024	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Acenaphthene	0.015	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Fluorene	0.013	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Phenanthrene	0.11	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Anthracene	0.025	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Fluoranthene	0.11	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Pyrene	0.14	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Benzo[a]anthracene	0.095	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Chrysene	0.13	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Benzo[b]fluoranthene	0.15	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Benzo(j,k)fluoranthene	0.045	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Benzo[a]pyrene	0.11	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Indeno(1,2,3-c,d)pyrene	0.052	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Dibenz[a,h]anthracene	0.015	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
Benzo[g,h,i]perylene	0.070	0.0083	EPA 8270D/SIM	8-23-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>85</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-129-01					
Client ID:	A6-MW1D-0-1					
Arsenic	ND	11	6010C	8-11-16	8-11-16	
Barium	120	2.8	6010C	8-11-16	8-11-16	
Cadmium	ND	0.57	6010C	8-11-16	8-11-16	
Chromium	21	0.57	6010C	8-11-16	8-11-16	
Lead	190	5.7	6010C	8-11-16	8-11-16	
Mercury	ND	0.28	7471B	8-11-16	8-11-16	
Selenium	ND	11	6010C	8-11-16	8-11-16	
Silver	ND	1.1	6010C	8-11-16	8-11-16	

Lab ID:	08-129-02					
Client ID:	A6-MW1D-1-2					
Arsenic	ND	12	6010C	8-11-16	8-11-16	
Barium	370	3.0	6010C	8-11-16	8-11-16	
Cadmium	1.0	0.59	6010C	8-11-16	8-11-16	
Chromium	40	0.59	6010C	8-11-16	8-11-16	
Lead	570	5.9	6010C	8-11-16	8-11-16	
Mercury	0.74	0.30	7471B	8-11-16	8-11-16	
Selenium	ND	12	6010C	8-11-16	8-11-16	
Silver	ND	1.2	6010C	8-11-16	8-11-16	



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**TOTAL LEAD
EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-129-03					
Client ID:	A6-MW1D-2-3					
Lead	250	6.3	6010C	8-24-16	8-25-16	



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**TOTAL LEAD
 EPA 6010C**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-129-04					
Client ID:	A6-MW1D-3-4					
Lead	460	6.3	6010C	9-9-16	9-9-16	



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-23-24					
Laboratory ID:	08-129-13					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0017	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-23-24					
Laboratory ID:	08-129-13					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	0.0014	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160809					
Laboratory ID:	08-129-21					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160809					
Laboratory ID:	08-129-21					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0811S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-11-16	8-11-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-11-16	8-11-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-11-16	8-11-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	127	50-150				



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-16-16	8-16-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-129-02							
	ORIG	DUP						
Diesel Range Organics	54.0	47.2	NA	NA	NA	NA	13	NA
Lube Oil	349	300	NA	NA	NA	NA	15	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				122	128	50-150		



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0812S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Chloromethane	ND	0.0065	EPA 8260C	8-12-16	8-12-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Bromomethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Chloroethane	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Acetone	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Iodomethane	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Methylene Chloride	ND	0.0088	EPA 8260C	8-12-16	8-12-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
2-Butanone	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Chloroform	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Benzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Toluene	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	



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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0812S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-12-16	8-12-16	
o-Xylene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Styrene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Bromoform	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-12-16	8-12-16	
Naphthalene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-12-16	8-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0067	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0064	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Toluene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0815S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0816S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0070	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Acetone	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Butanone	ND	0.0067	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Benzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Toluene	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	



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VOLATILES by EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0816S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-16-16	8-16-16	
o-Xylene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Styrene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Naphthalene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0812S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0365	0.0358	0.0500	0.0500	73	72	68-126	2	15	
Benzene	0.0419	0.0429	0.0500	0.0500	84	86	75-121	2	15	
Trichloroethene	0.0477	0.0508	0.0500	0.0500	95	102	75-120	6	15	
Toluene	0.0500	0.0516	0.0500	0.0500	100	103	80-120	3	15	
Chlorobenzene	0.0476	0.0456	0.0500	0.0500	95	91	76-120	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	92	76-131			
Toluene-d8					99	97	80-126			
4-Bromofluorobenzene					101	90	60-146			



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**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0815S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0505	0.0518	0.0500	0.0500	101	104	68-126	3	15	
Benzene	0.0457	0.0449	0.0500	0.0500	91	90	75-121	2	15	
Trichloroethene	0.0494	0.0518	0.0500	0.0500	99	104	75-120	5	15	
Toluene	0.0487	0.0511	0.0500	0.0500	97	102	80-120	5	15	
Chlorobenzene	0.0445	0.0457	0.0500	0.0500	89	91	76-120	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	99	76-131			
Toluene-d8					96	100	80-126			
4-Bromofluorobenzene					99	99	60-146			



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**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0816S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0470	0.0492	0.0500	0.0500	94	98	68-126	5	15	
Benzene	0.0422	0.0440	0.0500	0.0500	84	88	75-121	4	15	
Trichloroethene	0.0471	0.0511	0.0500	0.0500	94	102	75-120	8	15	
Toluene	0.0481	0.0501	0.0500	0.0500	96	100	80-120	4	15	
Chlorobenzene	0.0432	0.0470	0.0500	0.0500	86	94	76-120	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	97	76-131			
Toluene-d8					95	98	80-126			
4-Bromofluorobenzene					98	97	60-146			



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-15-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>97</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>93</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>97</i>	<i>30 - 117</i>				



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 Project: 183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0815S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.0796	0.0682	0.0833	0.0833	96	82	61 - 112	15	15	
Acenaphthylene	0.0761	0.0754	0.0833	0.0833	91	91	65 - 116	1	15	
Acenaphthene	0.0824	0.0833	0.0833	0.0833	99	100	62 - 116	1	13	
Fluorene	0.0786	0.0804	0.0833	0.0833	94	97	60 - 115	2	15	
Phenanthrene	0.0804	0.0831	0.0833	0.0833	97	100	54 - 114	3	15	
Anthracene	0.0879	0.0916	0.0833	0.0833	106	110	70 - 140	4	15	
Fluoranthene	0.0838	0.0879	0.0833	0.0833	101	106	60 - 118	5	15	
Pyrene	0.0827	0.0865	0.0833	0.0833	99	104	65 - 115	4	15	
Benzo[a]anthracene	0.0774	0.0789	0.0833	0.0833	93	95	59 - 129	2	15	
Chrysene	0.0843	0.0886	0.0833	0.0833	101	106	60 - 122	5	15	
Benzo[b]fluoranthene	0.0786	0.0814	0.0833	0.0833	94	98	53 - 124	4	17	
Benzo(j,k)fluoranthene	0.0866	0.0895	0.0833	0.0833	104	107	58 - 124	3	16	
Benzo[a]pyrene	0.0819	0.0823	0.0833	0.0833	98	99	62 - 127	0	15	
Indeno(1,2,3-c,d)pyrene	0.0794	0.0820	0.0833	0.0833	95	98	60 - 120	3	15	
Dibenz[a,h]anthracene	0.0773	0.0794	0.0833	0.0833	93	95	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0789	0.0812	0.0833	0.0833	95	97	63 - 117	3	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					83	92	32 - 115			
Pyrene-d10					93	95	30 - 124			
Terphenyl-d14					96	97	30 - 117			



Date of Report: September 13, 2016
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 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-23-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>94</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>100</i>	<i>30 - 117</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**PAHs EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits			Limit	
MATRIX SPIKES											
Laboratory ID:	08-129-03										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.115	0.119	0.0833	0.0833	0.0772	45	50	35 - 114	3	28	
Acenaphthylene	0.0808	0.0780	0.0833	0.0833	0.0191	74	71	42 - 116	4	32	
Acenaphthene	0.0719	0.0692	0.0833	0.0833	0.0117	72	69	39 - 113	4	30	
Fluorene	0.0769	0.0747	0.0833	0.0833	0.0103	80	77	34 - 121	3	29	
Phenanthrene	0.153	0.142	0.0833	0.0833	0.0853	81	68	25 - 122	7	32	
Anthracene	0.0904	0.0860	0.0833	0.0833	0.0198	85	79	31 - 140	5	35	
Fluoranthene	0.151	0.140	0.0833	0.0833	0.0879	76	63	24 - 128	8	31	
Pyrene	0.184	0.172	0.0833	0.0833	0.111	88	73	26 - 123	7	35	
Benzo[a]anthracene	0.157	0.146	0.0833	0.0833	0.0759	97	84	28 - 133	7	31	
Chrysene	0.173	0.161	0.0833	0.0833	0.101	86	72	27 - 124	7	31	
Benzo[b]fluoranthene	0.173	0.162	0.0833	0.0833	0.118	66	53	30 - 122	7	33	
Benzo(j,k)fluoranthene	0.112	0.109	0.0833	0.0833	0.0360	91	88	26 - 122	3	31	
Benzo[a]pyrene	0.146	0.130	0.0833	0.0833	0.0908	66	47	32 - 128	12	34	
Indeno(1,2,3-c,d)pyrene	0.0908	0.0834	0.0833	0.0833	0.0416	59	50	30 - 118	8	30	
Dibenz[a,h]anthracene	0.0649	0.0623	0.0833	0.0833	0.0121	63	60	35 - 115	4	33	
Benzo[g,h,i]perylene	0.102	0.0987	0.0833	0.0833	0.0558	55	52	29 - 119	3	29	
<i>Surrogate:</i>											
2-Fluorobiphenyl						64	62	32 - 115			
Pyrene-d10						76	73	30 - 124			
Terphenyl-d14						89	92	30 - 117			



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-11-16
Date Analyzed: 8-11-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0811SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: September 13, 2016
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Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-11-16
Date Analyzed: 8-11-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0811S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 13, 2016
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 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-11-16

Date Analyzed: 8-11-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-099-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	12.1	12.2	1	10	
Barium	101	96.8	4	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	36.0	37.5	4	0.50	
Lead	18.5	19.1	3	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-11-16

Date Analyzed: 8-11-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-097-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-11-16

Date Analyzed: 8-11-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-099-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	104	92	104	92	0	
Barium	100	200	99	202	100	1	
Cadmium	50.0	46.5	93	46.3	93	0	
Chromium	100	125	89	127	91	1	
Lead	250	244	90	243	90	0	
Selenium	100	89.0	89	92.0	92	3	
Silver	25.0	22.2	89	21.9	88	1	



Date of Report: September 13, 2016
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Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-11-16

Date Analyzed: 8-11-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-097-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.530	106	0.516	103	3	



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-24-16
Date Analyzed: 8-25-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0824SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-24-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-268-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	269	257	4	5.0	



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 8-24-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-268-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	467	79	476	83	2	



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-9-16
Date Analyzed: 9-9-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0909SM2

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-9-16

Date Analyzed: 9-9-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-071-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	5.0	



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**TOTAL LEAD
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 9-9-16

Date Analyzed: 9-9-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 09-071-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	238	95	237	95	1	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	



Date of Report: September 13, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0819S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0473	0.0500	0.0500	90	95	68-126	5	15	
Benzene	0.0455	0.0477	0.0500	0.0500	91	95	75-121	5	15	
Trichloroethene	0.0482	0.0470	0.0500	0.0500	96	94	75-120	3	15	
Toluene	0.0480	0.0489	0.0500	0.0500	96	98	80-120	2	15	
Chlorobenzene	0.0467	0.0467	0.0500	0.0500	93	93	76-120	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	101	76-131			
<i>Toluene-d8</i>					100	99	80-126			
<i>4-Bromofluorobenzene</i>					89	91	60-146			



Date of Report: September 13, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0826W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 9, 2016
 Laboratory Reference: 1608-129
 Project: 183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0826W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	9.43	10.0	10.0	105	94	62-132	11	20	
Benzene	10.8	9.89	10.0	10.0	108	99	75-121	9	15	
Trichloroethene	10.0	8.66	10.0	10.0	100	87	65-115	14	15	
Toluene	11.4	10.1	10.0	10.0	114	101	78-120	12	15	
Chlorobenzene	10.3	9.20	10.0	10.0	103	92	77-118	11	15	
<i>Surrogate:</i>										
Dibromofluoromethane					99	109	71-131			
Toluene-d8					97	95	80-127			
4-Bromofluorobenzene					92	93	80-125			



Date of Report: September 13, 2016
Samples Submitted: August 9, 2016
Laboratory Reference: 1608-129
Project: 183-109-01-T500

% MOISTURE

Date Analyzed: 8-11,12&19&9-9-16

Client ID	Lab ID	% Moisture
A6-MW1D-0-1	08-129-01	12
A6-MW1D-1-2	08-129-02	15
A6-MW1D-2-3	08-129-03	20
A6-MW1D-3-4	08-129-04	21
A6-MW1D-4-5	08-129-05	21
A6-MW1D-10-11	08-129-09	13
A6-MW1D-14-15	08-129-10	9
A6-MW1D-19-20	08-129-11	12
A6-MW1D-20-21	08-129-12	8
A6-MW1D-23-24	08-129-13	8
A6-MW1D-28-29	08-129-14	6
A6-MW1D-30-31	08-129-15	20
A6-MW1D-35-36	08-129-16	7
A6-MW1D-38-39	08-129-17	9
A6-MW1D-40-41	08-129-18	13
A6-MW1D-44-45	08-129-19	11
DUP1-20160809	08-129-20	9



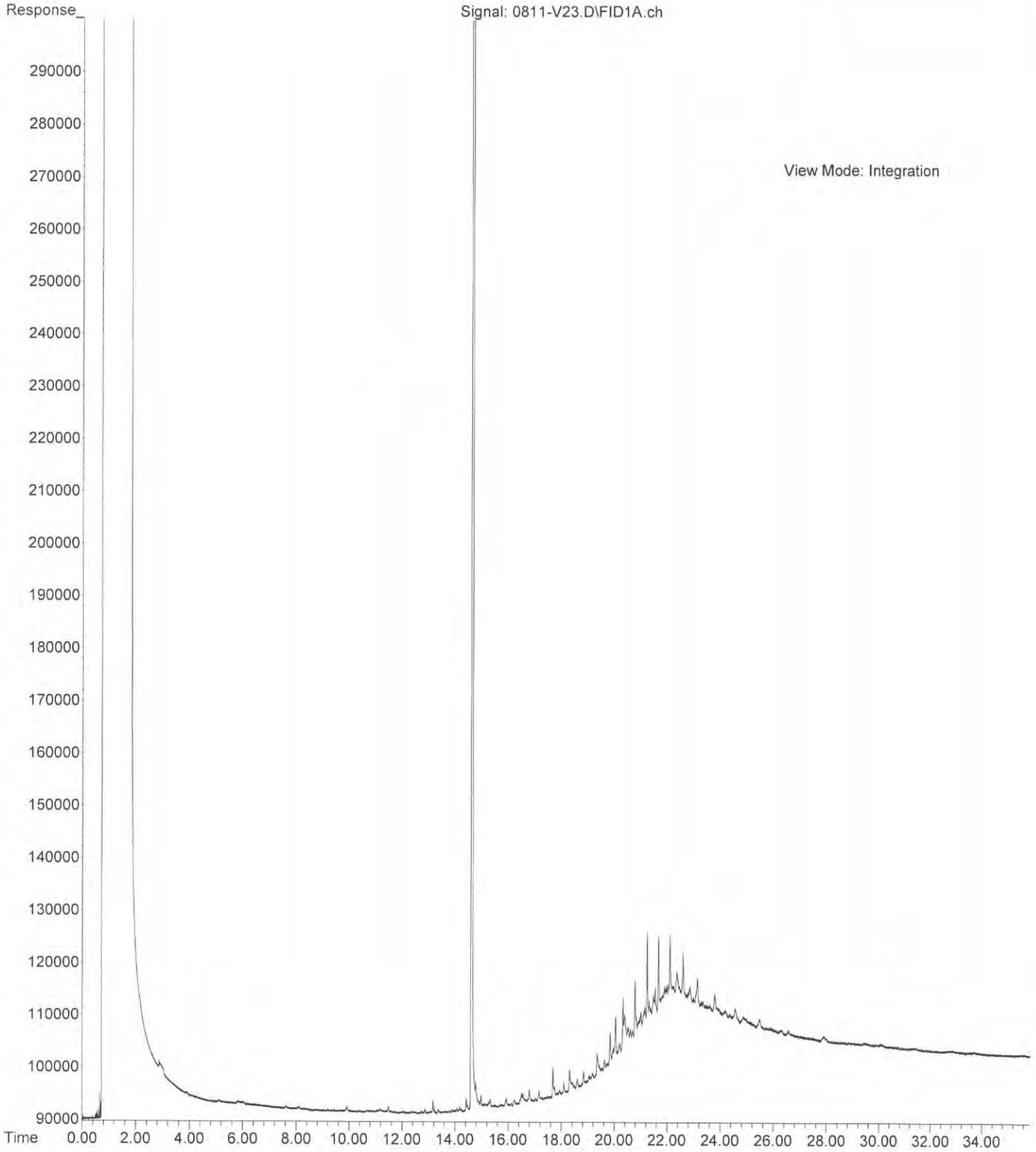


Data Qualifiers and Abbreviations

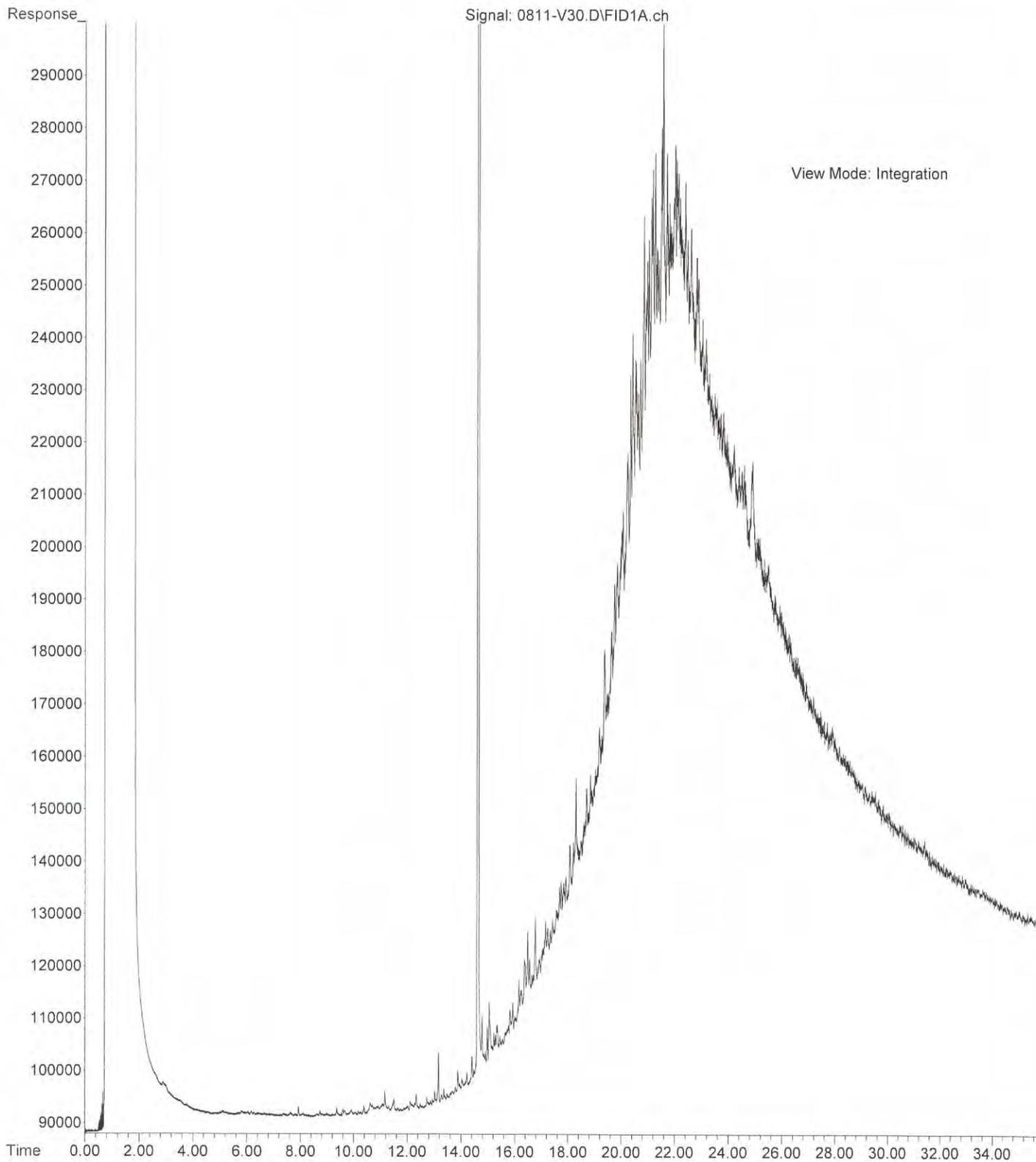
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



File :X:\DIESELS\VIGO\DATA\V160811\0811-V23.D
Operator :
Acquired : 12 Aug 2016 1:36 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-129-01 HC
Misc Info :
Vial Number: 23



File :X:\DIESELS\VIGO\DATA\V160811\0811-V30.D
Operator :
Acquired : 12 Aug 2016 6:27 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-129-02 HC
Misc Info :
Vial Number: 30





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 31, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-161

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 11, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-161
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 10 and 11, 2016 and received by the laboratory on August 11, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Volatiles EPA 8260C (water) Analysis

Per client's request, samples TB-20160810 were analyzed outside of the holding time.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW1S-0-1	08-161-01	Soil	8-10-16	8-11-16	
A6-MW1S-1-2	08-161-02	Soil	8-10-16	8-11-16	
A6-MW1S-2-3	08-161-03	Soil	8-10-16	8-11-16	
A6-MW1S-5-6	08-161-06	Soil	8-10-16	8-11-16	
A6-MW1S-8-9	08-161-09	Soil	8-10-16	8-11-16	
A6-MW1S-14-15	08-161-10	Soil	8-10-16	8-11-16	
A6-MW1S-19-20	08-161-11	Soil	8-10-16	8-11-16	
TB-20160810	08-161-12	Water	8-10-16	8-11-16	
A11-MW1D-5.5-6	08-161-14	Soil	8-10-16	8-11-16	
A11-MW1D-9-10	08-161-15	Soil	8-10-16	8-11-16	
A11-MW1D-17-17.5	08-161-16	Soil	8-10-16	8-11-16	
A11-MW1D-17.5-18	08-161-17	Soil	8-10-16	8-11-16	
A11-MW1D-20-21	08-161-18	Soil	8-10-16	8-11-16	
Dup1-20160810	08-161-19	Soil	8-10-16	8-11-16	
A11-MW1D-29-30	08-161-21	Soil	8-10-16	8-11-16	
A11-MW1D-38-39	08-161-24	Soil	8-10-16	8-11-16	
A11-MW1D-44-45	08-161-25	Soil	8-10-16	8-11-16	
A11-MW1D-49-50	08-161-26	Soil	8-10-16	8-11-16	
TB-20160810	08-161-27	Water	8-10-16	8-11-16	
A11-MW1S-1-2	08-161-28	Soil	8-11-16	8-11-16	
Dup1-20160811	08-161-29	Soil	8-11-16	8-11-16	
A11-MW1S-9-10	08-161-31	Soil	8-11-16	8-11-16	
A11-MW1S-16-16.5	08-161-32	Soil	8-11-16	8-11-16	
A11-MW1S-16.5-17	08-161-33	Soil	8-11-16	8-11-16	



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-0-1					
Laboratory ID:	08-161-01					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-16-16	8-16-16	
Diesel Range Organics	ND	57	NWTPH-HCID	8-16-16	8-16-16	
Lube Oil	Detected	120	NWTPH-HCID	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	129	50-150				

Client ID:	A6-MW1S-1-2					
Laboratory ID:	08-161-02					
Gasoline Range Organics	ND	24	NWTPH-HCID	8-16-16	8-16-16	
Diesel Range Organics	ND	61	NWTPH-HCID	8-16-16	8-16-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	118	50-150				



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-0-1					
Laboratory ID:	08-161-01					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0023	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.012	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0080	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Toluene	0.010	0.0066	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-0-1					
Laboratory ID:	08-161-01					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0027	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>60-146</i>				



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-1-2					
Laboratory ID:	08-161-02					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0023	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.012	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0082	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Toluene	0.026	0.0068	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-1-2					
Laboratory ID:	08-161-02					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0027	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-5-6					
Laboratory ID:	08-161-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0090	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-5-6					
Laboratory ID:	08-161-06					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-8-9					
Laboratory ID:	08-161-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0039	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0039	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0070	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0046	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-8-9					
Laboratory ID:	08-161-09					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-14-15					
Laboratory ID:	08-161-10					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0035	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0012	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0035	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0064	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	0.0027	0.00071	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	0.0030	0.00071	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-14-15					
Laboratory ID:	08-161-10					
1,1,2-Trichloroethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	0.0038	0.00071	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00071	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-19-20					
Laboratory ID:	08-161-11					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-19-20					
Laboratory ID:	08-161-11					
1,1,2-Trichloroethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	0.0033	0.00074	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00074	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-5.5-6					
Laboratory ID:	08-161-14					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0090	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-5.5-6					
Laboratory ID:	08-161-14					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>117</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-9-10					
Laboratory ID:	08-161-15					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0045	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0015	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0045	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0081	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-9-10					
Laboratory ID:	08-161-15					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-17-17.5					
Laboratory ID:	08-161-16					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0054	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0018	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0054	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0098	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0065	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-17-17.5					
Laboratory ID:	08-161-16					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-17.5-18					
Laboratory ID:	08-161-17					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0015	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0079	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-17.5-18					
Laboratory ID:	08-161-17					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-20-21					
Laboratory ID:	08-161-18					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0089	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-20-21					
Laboratory ID:	08-161-18					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160810					
Laboratory ID:	08-161-19					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0043	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0015	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0043	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0078	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160810					
Laboratory ID:	08-161-19					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-29-30					
Laboratory ID:	08-161-21					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0088	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0059	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	0.0051	0.00098	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-29-30					
Laboratory ID:	08-161-21					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-38-39					
Laboratory ID:	08-161-24					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0042	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0014	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0042	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0076	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	0.00089	0.00084	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-38-39					
Laboratory ID:	08-161-24					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-44-45					
Laboratory ID:	08-161-25					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0047	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0016	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0047	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0085	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	0.0030	0.00094	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-44-45					
Laboratory ID:	08-161-25					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-49-50					
Laboratory ID:	08-161-26					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0012	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0066	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0044	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	0.027	0.00073	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-49-50					
Laboratory ID:	08-161-26					
1,1,2-Trichloroethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.00073	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-1-2					
Laboratory ID:	08-161-28					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0090	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-1-2					
Laboratory ID:	08-161-28					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160811					
Laboratory ID:	08-161-29					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0091	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0061	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160811					
Laboratory ID:	08-161-29					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-9-10					
Laboratory ID:	08-161-31					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0061	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-9-10					
Laboratory ID:	08-161-31					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-16-16.5					
Laboratory ID:	08-161-32					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0077	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0057	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0057	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0099	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-16-16.5					
Laboratory ID:	08-161-32					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-16.5-17					
Laboratory ID:	08-161-33					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0069	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0088	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1S-16.5-17					
Laboratory ID:	08-161-33					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-0-1					
Laboratory ID:	08-161-01					
Naphthalene	0.024	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
2-Methylnaphthalene	0.025	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
1-Methylnaphthalene	0.023	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Acenaphthylene	0.014	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Acenaphthene	ND	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Fluorene	0.0079	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Phenanthrene	0.088	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Anthracene	0.015	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Fluoranthene	0.087	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Pyrene	0.099	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[a]anthracene	0.059	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Chrysene	0.069	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[b]fluoranthene	0.11	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo(j,k)fluoranthene	0.029	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[a]pyrene	0.066	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Indeno(1,2,3-c,d)pyrene	0.053	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Dibenz[a,h]anthracene	0.014	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[g,h,i]perylene	0.068	0.0077	EPA 8270D/SIM	8-17-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-1-2					
Laboratory ID:	08-161-02					
Naphthalene	0.029	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
2-Methylnaphthalene	0.035	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
1-Methylnaphthalene	0.037	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Acenaphthylene	0.014	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Acenaphthene	ND	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Fluorene	0.0098	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Phenanthrene	0.085	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Anthracene	0.012	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Fluoranthene	0.085	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Pyrene	0.10	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[a]anthracene	0.058	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Chrysene	0.075	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[b]fluoranthene	0.098	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo(j,k)fluoranthene	0.020	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[a]pyrene	0.062	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Indeno(1,2,3-c,d)pyrene	0.044	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Dibenz[a,h]anthracene	0.013	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
Benzo[g,h,i]perylene	0.056	0.0081	EPA 8270D/SIM	8-17-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>71</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>76</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>85</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-161-01					
Client ID:	A6-MW1S-0-1					
Arsenic	15	11	6010C	8-16-16	8-16-16	
Barium	1300	14	6010C	8-16-16	8-16-16	
Cadmium	1.3	0.57	6010C	8-16-16	8-16-16	
Chromium	82	0.57	6010C	8-16-16	8-16-16	
Lead	610	5.7	6010C	8-16-16	8-16-16	
Mercury	0.52	0.29	7471B	8-16-16	8-16-16	
Selenium	ND	11	6010C	8-16-16	8-16-16	
Silver	ND	1.1	6010C	8-16-16	8-16-16	

Lab ID:	08-161-02					
Client ID:	A6-MW1S-1-2					
Arsenic	ND	12	6010C	8-16-16	8-16-16	
Barium	380	3.0	6010C	8-16-16	8-16-16	
Cadmium	0.77	0.61	6010C	8-16-16	8-16-16	
Chromium	61	0.61	6010C	8-16-16	8-16-16	
Lead	620	6.1	6010C	8-16-16	8-16-16	
Mercury	0.52	0.30	7471B	8-16-16	8-16-16	
Selenium	ND	12	6010C	8-16-16	8-16-16	
Silver	ND	1.2	6010C	8-16-16	8-16-16	



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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-0-1					
Laboratory ID:	08-161-01					
Diesel Range Organics	72	29	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil	290	57	NWTPH-Dx	8-23-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	57	50-150				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-2-3					
Laboratory ID:	08-161-03					
Naphthalene	0.036	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
2-Methylnaphthalene	0.067	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
1-Methylnaphthalene	0.057	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Fluorene	ND	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Phenanthrene	0.042	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Anthracene	ND	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Fluoranthene	0.036	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Pyrene	0.048	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Benzo[a]anthracene	0.030	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Chrysene	0.036	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Benzo[b]fluoranthene	0.035	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Benzo(j,k)fluoranthene	0.010	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Benzo[a]pyrene	0.027	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Indeno(1,2,3-c,d)pyrene	0.011	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
Benzo[g,h,i]perylene	0.017	0.0076	EPA 8270D/SIM	8-24-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	53	32 - 115				
<i>Pyrene-d10</i>	65	30 - 124				
<i>Terphenyl-d14</i>	83	30 - 117				



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**TOTAL LEAD
EPA 6010C**

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-161-03					
Client ID:	A6-MW1S-2-3					
Lead	49	5.7	6010C	8-24-16	8-25-16	



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160810					
Laboratory ID:	08-161-12					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160810					
Laboratory ID:	08-161-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160810					
Laboratory ID:	08-161-27					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160810					
Laboratory ID:	08-161-27					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0816S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-16-16	8-16-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-16-16	8-16-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>117</i>	<i>50-150</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0067	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0064	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Toluene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0815S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0815S2					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-15-16	8-15-16	
Chloromethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromomethane	ND	0.0017	EPA 8260C	8-15-16	8-15-16	
Chloroethane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Acetone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Iodomethane	ND	0.0090	EPA 8260C	8-15-16	8-15-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-15-16	8-15-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Butanone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chloroform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Benzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Toluene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0815S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-15-16	8-15-16	
o-Xylene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Styrene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromoform	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-15-16	8-15-16	
Naphthalene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-15-16	8-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>60-146</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0816S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0070	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Acetone	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Butanone	ND	0.0067	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Benzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Toluene	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0816S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-16-16	8-16-16	
o-Xylene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Styrene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Naphthalene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



Date of Report: August 31, 2016
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 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0815S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0505	0.0518	0.0500	0.0500	101	104	68-126	3	15	
Benzene	0.0457	0.0449	0.0500	0.0500	91	90	75-121	2	15	
Trichloroethene	0.0494	0.0518	0.0500	0.0500	99	104	75-120	5	15	
Toluene	0.0487	0.0511	0.0500	0.0500	97	102	80-120	5	15	
Chlorobenzene	0.0445	0.0457	0.0500	0.0500	89	91	76-120	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	99	76-131			
Toluene-d8					96	100	80-126			
4-Bromofluorobenzene					99	99	60-146			



Date of Report: August 31, 2016
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 Project: 0183-109-01-T500

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0815S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0470	0.0485	0.0500	0.0500	94	97	68-126	3	15	
Benzene	0.0420	0.0435	0.0500	0.0500	84	87	75-121	4	15	
Trichloroethene	0.0459	0.0509	0.0500	0.0500	92	102	75-120	10	15	
Toluene	0.0480	0.0512	0.0500	0.0500	96	102	80-120	6	15	
Chlorobenzene	0.0468	0.0492	0.0500	0.0500	94	98	76-120	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					89	89	76-131			
Toluene-d8					99	104	80-126			
4-Bromofluorobenzene					104	106	60-146			



Date of Report: August 31, 2016
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 Project: 0183-109-01-T500

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0816S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0470	0.0492	0.0500	0.0500	94	98	68-126	5	15	
Benzene	0.0422	0.0440	0.0500	0.0500	84	88	75-121	4	15	
Trichloroethene	0.0471	0.0511	0.0500	0.0500	94	102	75-120	8	15	
Toluene	0.0481	0.0501	0.0500	0.0500	96	100	80-120	4	15	
Chlorobenzene	0.0432	0.0470	0.0500	0.0500	86	94	76-120	8	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	97	76-131			
Toluene-d8					95	98	80-126			
4-Bromofluorobenzene					98	97	60-146			



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0817S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-17-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	76	32 - 115				
<i>Pyrene-d10</i>	89	30 - 124				
<i>Terphenyl-d14</i>	93	30 - 117				



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 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0817S1									
Naphthalene	0.0852	0.0870	0.0833	0.0833	102	104	61 - 112	2	15	
Acenaphthylene	0.0686	0.0712	0.0833	0.0833	82	85	65 - 116	4	15	
Acenaphthene	0.0755	0.0773	0.0833	0.0833	91	93	62 - 116	2	13	
Fluorene	0.0836	0.0847	0.0833	0.0833	100	102	60 - 115	1	15	
Phenanthrene	0.0771	0.0801	0.0833	0.0833	93	96	54 - 114	4	15	
Anthracene	0.0864	0.0893	0.0833	0.0833	104	107	70 - 140	3	15	
Fluoranthene	0.0871	0.0877	0.0833	0.0833	105	105	60 - 118	1	15	
Pyrene	0.0842	0.0841	0.0833	0.0833	101	101	65 - 115	0	15	
Benzo[a]anthracene	0.0748	0.0746	0.0833	0.0833	90	90	59 - 129	0	15	
Chrysene	0.0867	0.0837	0.0833	0.0833	104	100	60 - 122	4	15	
Benzo[b]fluoranthene	0.0838	0.0831	0.0833	0.0833	101	100	53 - 124	1	17	
Benzo(j,k)fluoranthene	0.0863	0.0826	0.0833	0.0833	104	99	58 - 124	4	16	
Benzo[a]pyrene	0.0900	0.0874	0.0833	0.0833	108	105	62 - 127	3	15	
Indeno(1,2,3-c,d)pyrene	0.0837	0.0812	0.0833	0.0833	100	97	60 - 120	3	15	
Dibenz[a,h]anthracene	0.0883	0.0850	0.0833	0.0833	106	102	60 - 117	4	15	
Benzo[g,h,i]perylene	0.0825	0.0811	0.0833	0.0833	99	97	63 - 117	2	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					78	92	32 - 115			
Pyrene-d10					93	94	30 - 124			
Terphenyl-d14					97	95	30 - 117			



Date of Report: August 31, 2016
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Laboratory Reference: 1608-161
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-16-16
Date Analyzed: 8-16-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0816SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: August 31, 2016
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Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-16-16
Date Analyzed: 8-16-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0816S2

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: August 31, 2016
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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-16-16

Date Analyzed: 8-16-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-191-18

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	78.1	79.5	2	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	18.3	19.0	4	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: August 31, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-161
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-16-16

Date Analyzed: 8-16-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-191-13

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-16-16

Date Analyzed: 8-16-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-191-18

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	88.8	89	92.2	92	4	
Barium	100	170	92	175	96	3	
Cadmium	50.0	45.2	90	46.2	92	2	
Chromium	100	111	93	113	95	1	
Lead	250	229	92	235	94	2	
Selenium	100	91.9	92	94.7	95	3	
Silver	25.0	22.4	90	22.9	91	2	



Date of Report: August 31, 2016
 Samples Submitted: August 11, 2016
 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

**TOTAL MERCURY
 EPA 7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-16-16

Date Analyzed: 8-16-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-191-13

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.458	92	0.500	100	9	



Date of Report: August 31, 2016
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 Project: 0183-109-01-T500

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-23-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	63	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-249-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				78	76	50-150		



Date of Report: August 31, 2016
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 Laboratory Reference: 1608-161
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0824S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-24-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>105</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>83</i>	<i>30 - 117</i>				



Date of Report: August 31, 2016
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**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0824S1									
Naphthalene	0.0709	0.0735	0.0833	0.0833	85	88	61 - 112	4	15	
Acenaphthylene	0.0798	0.0770	0.0833	0.0833	96	92	65 - 116	4	15	
Acenaphthene	0.0786	0.0753	0.0833	0.0833	94	90	62 - 116	4	13	
Fluorene	0.0803	0.0746	0.0833	0.0833	96	90	60 - 115	7	15	
Phenanthrene	0.0766	0.0754	0.0833	0.0833	92	91	54 - 114	2	15	
Anthracene	0.0889	0.0869	0.0833	0.0833	107	104	70 - 140	2	15	
Fluoranthene	0.0729	0.0737	0.0833	0.0833	88	88	60 - 118	1	15	
Pyrene	0.0881	0.0869	0.0833	0.0833	106	104	65 - 115	1	15	
Benzo[a]anthracene	0.0972	0.0963	0.0833	0.0833	117	116	59 - 129	1	15	
Chrysene	0.101	0.100	0.0833	0.0833	121	120	60 - 122	1	15	
Benzo[b]fluoranthene	0.0970	0.0933	0.0833	0.0833	116	112	53 - 124	4	17	
Benzo(j,k)fluoranthene	0.0955	0.0984	0.0833	0.0833	115	118	58 - 124	3	16	
Benzo[a]pyrene	0.0908	0.0893	0.0833	0.0833	109	107	62 - 127	2	15	
Indeno(1,2,3-c,d)pyrene	0.0763	0.0775	0.0833	0.0833	92	93	60 - 120	2	15	
Dibenz[a,h]anthracene	0.0763	0.0770	0.0833	0.0833	92	92	60 - 117	1	15	
Benzo[g,h,i]perylene	0.0820	0.0856	0.0833	0.0833	98	103	63 - 120	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					73	72	32 - 115			
Pyrene-d10					86	85	30 - 124			
Terphenyl-d14					68	83	30 - 117			



Date of Report: August 31, 2016
Samples Submitted: August 11, 2016
Laboratory Reference: 1608-161
Project: 0183-109-01-T500

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-24-16
Date Analyzed: 8-25-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0824SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0



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**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-24-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-268-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	269	257	4	5.0	



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**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 8-24-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-268-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	467	79	476	83	2	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0826W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0826W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	9.43	10.0	10.0	105	94	62-132	11	20	
Benzene	10.8	9.89	10.0	10.0	108	99	75-121	9	15	
Trichloroethene	10.0	8.66	10.0	10.0	100	87	65-115	14	15	
Toluene	11.4	10.1	10.0	10.0	114	101	78-120	12	15	
Chlorobenzene	10.3	9.20	10.0	10.0	103	92	77-118	11	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	109	71-131			
<i>Toluene-d8</i>					97	95	80-127			
<i>4-Bromofluorobenzene</i>					92	93	80-125			



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% MOISTURE

Date Analyzed: 8-15&24-16

Client ID	Lab ID	% Moisture
A6-MW1S-0-1	08-161-01	13
A6-MW1S-1-2	08-161-02	18
A6-MW1S-2-3	08-161-03	12
A6-MW1S-5-6	08-161-06	14
A6-MW1S-8-9	08-161-09	10
A6-MW1S-14-15	08-161-10	9
A6-MW1S-19-20	08-161-11	0
A11-MW1D-5.5-6	08-161-14	9
A11-MW1D-9-10	08-161-15	9
A11-MW1D-17-17.5	08-161-16	16
A11-MW1D-17.5-18	08-161-17	19
A11-MW1D-20-21	08-161-18	10
Dup1-20160810	08-161-19	11
A11-MW1D-29-30	08-161-21	18
A11-MW1D-38-39	08-161-24	8
A11-MW1D-44-45	08-161-25	8
A11-MW1D-49-50	08-161-26	13
A11-MW1S-1-2	08-161-28	6
Dup1-20160811	08-161-29	6
A11-MW1S-9-10	08-161-31	8
A11-MW1S-16-16.5	08-161-32	19
A11-MW1S-16.5-17	08-161-33	13





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





M Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

08-161

Terraround Request
(In working days)

Laboratory Number:

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	

% Moisture

Company: Geo Engineers
 Project Number: 0183-189-01 T500
 Project Name: MW-2016 RI
 Project Manager: Tricia DeDome
 Sampled by: SD/R

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
28	20160811 SD	8/11/16		S
28	All-MWIS - 1-2		1100	4
29	Dup1-20160811		0700	
30	All-MWIS - 6-6.5		1105	
31	All-MWIS - 9-10		1125	
32	All-MWIS - 16-16.5		1130	
33	All-MWIS - 16.5-17		1135	

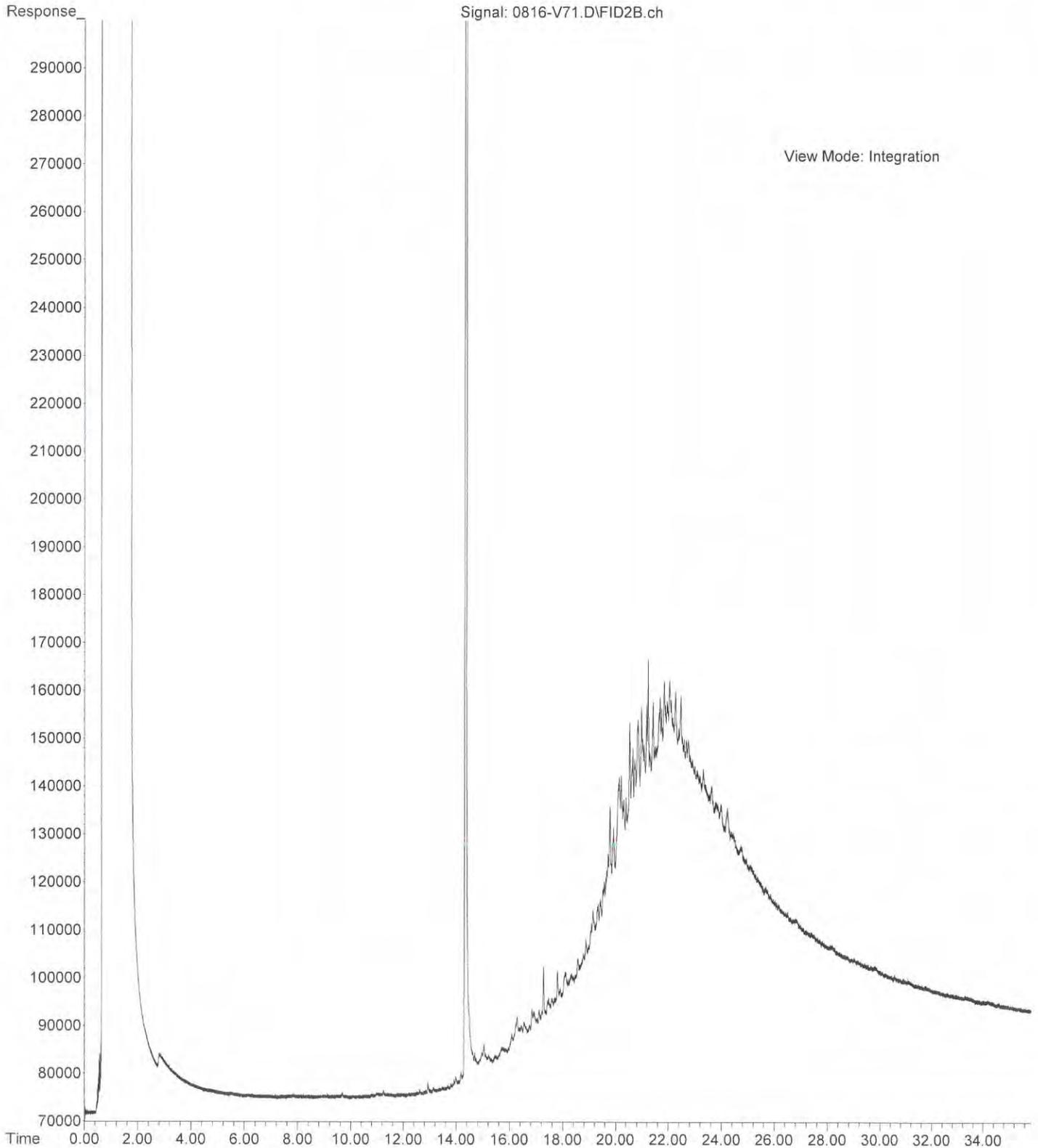
Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>GET</u>	<u>8/11/16</u>	<u>1300</u>	
<u>[Signature]</u>	<u>GET</u>	<u>8/11/16</u>	<u>1800</u>	
<u>[Signature]</u>	<u>GET</u>	<u>8/11/16</u>	<u>1507</u>	
<u>[Signature]</u>	<u>GET</u>	<u>8-11-16</u>	<u>3:07</u>	
<u>[Signature]</u>	<u>SPCC-07</u>	<u>8-11-16</u>	<u>4:30</u>	
<u>[Signature]</u>	<u>OSB</u>	<u>8/11/16</u>	<u>4:30</u>	

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

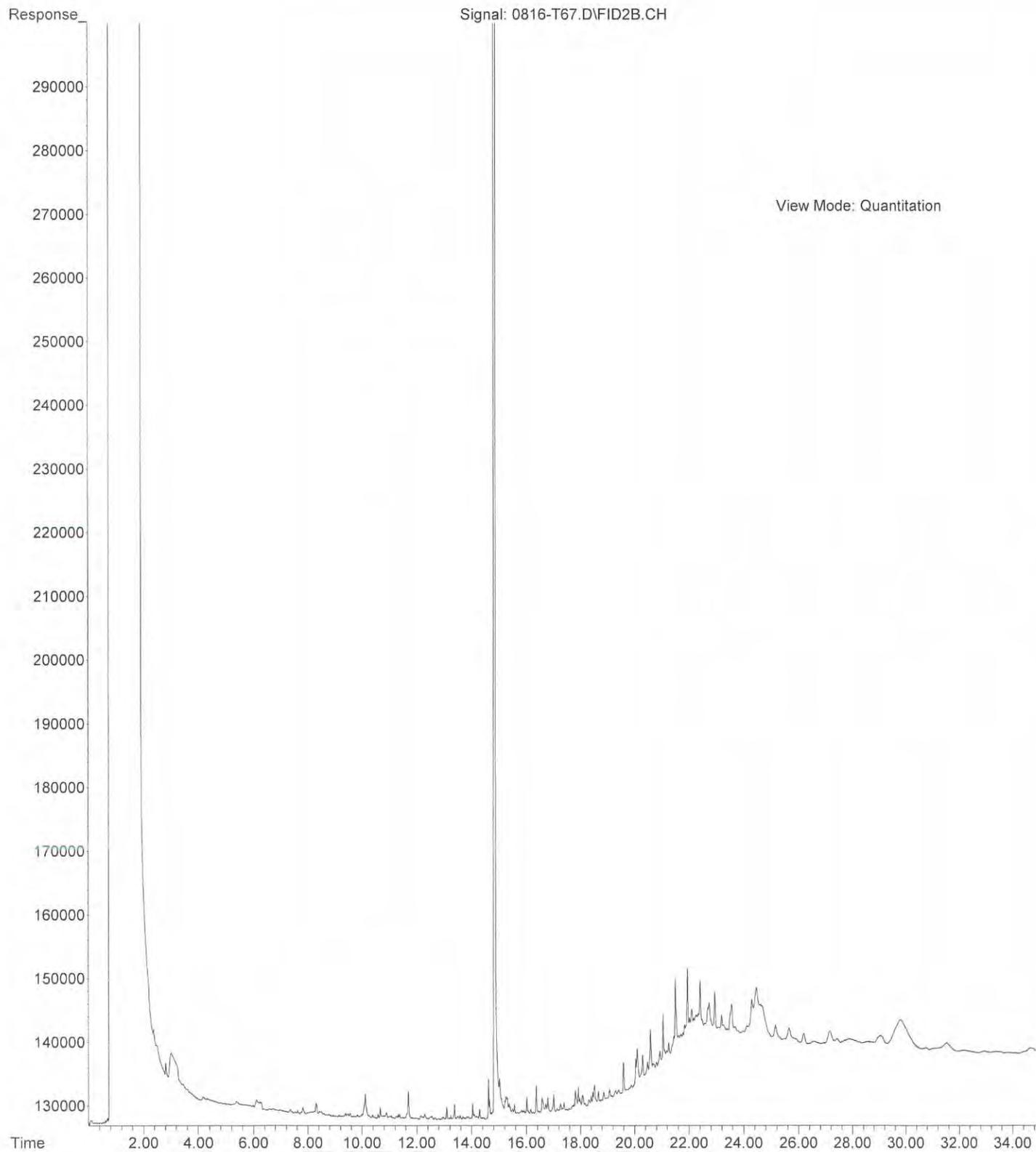
Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

File :X:\DIESELS\VIGO\DATA\V160816.SEC\0816-V71.D
Operator :
Acquired : 17 Aug 2016 2:25 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-161-01 HC
Misc Info :
Vial Number: 71



File :X:\DIESELS\TERI\DATA\T160816.SEC\0816-T67.D
Operator : ZT
Acquired : 16 Aug 2016 23:59 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-161-02 HC
Misc Info :
Vial Number: 67





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 18, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-177

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 18, 2016
Samples Submitted: August 12, 2016
Laboratory Reference: 1608-177
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 11 and 12, 2016 and received by the laboratory on August 12, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW7D-5-5.5	08-177-02	Soil	8-11-16	8-12-16	
A11-MW7D-14-15	08-177-04	Soil	8-11-16	8-12-16	
A11-MW7D-18-18.5	08-177-05	Soil	8-11-16	8-12-16	
A11-MW7D-18.5-19	08-177-06	Soil	8-11-16	8-12-16	
A11-MW7D-21-22	08-177-07	Soil	8-12-16	8-12-16	
A11-MW7D-24-25	08-177-08	Soil	8-12-16	8-12-16	
A11-MW7D-34-34.5	08-177-10	Soil	8-12-16	8-12-16	
A11-MW7D-34.5-35	08-177-11	Soil	8-12-16	8-12-16	
A11-MW7D-42-43	08-177-13	Soil	8-12-16	8-12-16	
A11-MW7D-53-54	08-177-15	Soil	8-12-16	8-12-16	
A11-MW7D-59-60	08-177-16	Soil	8-12-16	8-12-16	
A11-MW7D-63-64	08-177-18	Soil	8-12-16	8-12-16	
A11-MW7D-66-67	08-177-19	Soil	8-12-16	8-12-16	
A11-MW7D-18.5-21-W	08-177-20	Water	8-12-16	8-12-16	



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-5-5.5					
Laboratory ID:	08-177-02					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	8-17-16	8-17-16	
Chloromethane	ND	0.0051	EPA 8260C	8-17-16	8-17-16	
Vinyl Chloride	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Bromomethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Chloroethane	ND	0.0037	EPA 8260C	8-17-16	8-17-16	
Trichlorofluoromethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Iodomethane	ND	0.0037	EPA 8260C	8-17-16	8-17-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-17-16	8-17-16	
(trans) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
2,2-Dichloropropane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
(cis) 1,2-Dichloroethene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Bromochloromethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Chloroform	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,1,1-Trichloroethane	0.0018	0.00074	EPA 8260C	8-17-16	8-17-16	
Carbon Tetrachloride	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloropropene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloroethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Trichloroethene	0.052	0.00074	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloropropane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Dibromomethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Bromodichloromethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260C	8-17-16	8-17-16	
(cis) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
(trans) 1,3-Dichloropropene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-5-5.5					
Laboratory ID:	08-177-02					
1,1,2-Trichloroethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Tetrachloroethene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,3-Dichloropropane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Dibromochloromethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromoethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Chlorobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,1,1,2-Tetrachloroethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Bromoform	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Bromobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,1,2,2-Tetrachloroethane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichloropropane	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
2-Chlorotoluene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
4-Chlorotoluene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,3-Dichlorobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,4-Dichlorobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,2-Dichlorobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	8-17-16	8-17-16	
1,2,4-Trichlorobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichlorobenzene	ND	0.00074	EPA 8260C	8-17-16	8-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-14-15					
Laboratory ID:	08-177-04					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0054	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0039	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0039	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0039	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	0.062	0.00078	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-14-15					
Laboratory ID:	08-177-04					
1,1,2-Trichloroethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00078	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-18-18.5					
Laboratory ID:	08-177-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0060	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	0.0061	0.00085	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-18-18.5					
Laboratory ID:	08-177-05					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-18.5-19					
Laboratory ID:	08-177-06					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0061	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-18.5-19					
Laboratory ID:	08-177-06					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-21-22					
Laboratory ID:	08-177-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0065	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0047	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0047	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-21-22					
Laboratory ID:	08-177-07					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-24-25					
Laboratory ID:	08-177-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0058	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0042	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0042	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0042	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-24-25					
Laboratory ID:	08-177-08					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-34-34.5					
Laboratory ID:	08-177-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0057	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0041	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0041	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0041	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-34-34.5					
Laboratory ID:	08-177-10					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-34.5-35					
Laboratory ID:	08-177-11					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0072	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0052	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0052	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-34.5-35					
Laboratory ID:	08-177-11					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-42-43					
Laboratory ID:	08-177-13					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0063	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	0.023	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-42-43					
Laboratory ID:	08-177-13					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-53-54					
Laboratory ID:	08-177-15					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-17-16	8-17-16	
Chloromethane	ND	0.0068	EPA 8260C	8-17-16	8-17-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Bromomethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Chloroethane	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Iodomethane	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
Methylene Chloride	ND	0.0075	EPA 8260C	8-17-16	8-17-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Bromochloromethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Chloroform	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Trichloroethene	0.0035	0.00099	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Dibromomethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-53-54					
Laboratory ID:	08-177-15					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Chlorobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Bromoform	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Bromobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	8-17-16	8-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-59-60					
Laboratory ID:	08-177-16					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Chloromethane	ND	0.0057	EPA 8260C	8-17-16	8-17-16	
Vinyl Chloride	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Bromomethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Chloroethane	ND	0.0041	EPA 8260C	8-17-16	8-17-16	
Trichlorofluoromethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Iodomethane	ND	0.0041	EPA 8260C	8-17-16	8-17-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-17-16	8-17-16	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
2,2-Dichloropropane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Bromochloromethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Chloroform	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Carbon Tetrachloride	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloropropene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloroethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Trichloroethene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloropropane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Dibromomethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Bromodichloromethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-17-16	8-17-16	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-59-60					
Laboratory ID:	08-177-16					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Tetrachloroethene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,3-Dichloropropane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Dibromochloromethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromoethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Chlorobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Bromoform	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Bromobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
2-Chlorotoluene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
4-Chlorotoluene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-17-16	8-17-16	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260C	8-17-16	8-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-63-64					
Laboratory ID:	08-177-18					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-17-16	8-17-16	
Chloromethane	ND	0.0074	EPA 8260C	8-17-16	8-17-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Bromomethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Chloroethane	ND	0.0054	EPA 8260C	8-17-16	8-17-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Iodomethane	ND	0.0054	EPA 8260C	8-17-16	8-17-16	
Methylene Chloride	ND	0.0082	EPA 8260C	8-17-16	8-17-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Chloroform	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-17-16	8-17-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-63-64					
Laboratory ID:	08-177-18					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Bromoform	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-17-16	8-17-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-17-16	8-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-66-67					
Laboratory ID:	08-177-19					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	8-17-16	8-17-16	
Chloromethane	ND	0.0049	EPA 8260C	8-17-16	8-17-16	
Vinyl Chloride	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Bromomethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Chloroethane	ND	0.0035	EPA 8260C	8-17-16	8-17-16	
Trichlorofluoromethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Iodomethane	ND	0.0035	EPA 8260C	8-17-16	8-17-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-17-16	8-17-16	
(trans) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
2,2-Dichloropropane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
(cis) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Bromochloromethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Chloroform	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,1,1-Trichloroethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Carbon Tetrachloride	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloropropene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloroethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Trichloroethene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloropropane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Dibromomethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Bromodichloromethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-17-16	8-17-16	
(cis) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
(trans) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-66-67					
Laboratory ID:	08-177-19					
1,1,2-Trichloroethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Tetrachloroethene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,3-Dichloropropane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Dibromochloromethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromoethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Chlorobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,1,1,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Bromoform	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Bromobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,1,2,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichloropropane	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
2-Chlorotoluene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
4-Chlorotoluene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,3-Dichlorobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,4-Dichlorobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,2-Dichlorobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-17-16	8-17-16	
1,2,4-Trichlorobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichlorobenzene	ND	0.00071	EPA 8260C	8-17-16	8-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	76-131				
<i>Toluene-d8</i>	96	80-126				
<i>4-Bromofluorobenzene</i>	96	60-146				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-18.5-21-W					
Laboratory ID:	08-177-20					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Chloroform	0.24	0.20	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	3.1	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-16-16	8-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-18.5-21-W					
Laboratory ID:	08-177-20					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0816S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	0.0070	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0816S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0817S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-17-16	8-17-16	
Chloromethane	ND	0.0069	EPA 8260C	8-17-16	8-17-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Bromomethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Chloroethane	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Iodomethane	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
Methylene Chloride	ND	0.0076	EPA 8260C	8-17-16	8-17-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Chloroform	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0817S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Bromoform	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-17-16	8-17-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-17-16	8-17-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0816S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0470	0.0492	0.0500	0.0500	94	98	68-126	5	15	
Benzene	0.0422	0.0440	0.0500	0.0500	84	88	75-121	4	15	
Trichloroethene	0.0471	0.0511	0.0500	0.0500	94	102	75-120	8	15	
Toluene	0.0481	0.0501	0.0500	0.0500	96	100	80-120	4	15	
Chlorobenzene	0.0432	0.0470	0.0500	0.0500	86	94	76-120	8	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	97	76-131			
<i>Toluene-d8</i>					95	98	80-126			
<i>4-Bromofluorobenzene</i>					98	97	60-146			



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0817S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0456	0.0457	0.0500	0.0500	91	91	68-126	0	15	
Benzene	0.0447	0.0442	0.0500	0.0500	89	88	75-121	1	15	
Trichloroethene	0.0498	0.0514	0.0500	0.0500	100	103	75-120	3	15	
Toluene	0.0504	0.0511	0.0500	0.0500	101	102	80-120	1	15	
Chlorobenzene	0.0443	0.0458	0.0500	0.0500	89	92	76-120	3	15	
<i>Surrogate:</i>										
Dibromofluoromethane					97	92	76-131			
Toluene-d8					99	98	80-126			
4-Bromofluorobenzene					98	100	60-146			



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0816W2					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-16-16	8-16-16	
Chloromethane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromomethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Chloroethane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Iodomethane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-16-16	8-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Chloroform	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Trichloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Dibromomethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-16-16	8-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-16-16	8-16-16	



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0816W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Bromoform	ND	1.0	EPA 8260C	8-16-16	8-16-16	
Bromobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-16-16	8-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-16-16	8-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-16-16	8-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: August 18, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0816W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.20	9.57	10.0	10.0	92	96	62-132	4	20	
Benzene	9.26	9.41	10.0	10.0	93	94	75-121	2	15	
Trichloroethene	7.45	7.45	10.0	10.0	75	75	65-115	0	15	
Toluene	9.40	9.53	10.0	10.0	94	95	78-120	1	15	
Chlorobenzene	8.84	9.24	10.0	10.0	88	92	77-118	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					88	88	71-131			
Toluene-d8					88	90	80-127			
4-Bromofluorobenzene					95	96	80-125			



Date of Report: August 18, 2016
Samples Submitted: August 12, 2016
Laboratory Reference: 1608-177
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-16-16

Client ID	Lab ID	% Moisture
A11-MW7D-5-5.5	08-177-02	10
A11-MW7D-14-15	08-177-04	8
A11-MW7D-18-18.5	08-177-05	8
A11-MW7D-18.5-19	08-177-06	6
A11-MW7D-21-22	08-177-07	7
A11-MW7D-24-25	08-177-08	12
A11-MW7D-34-34.5	08-177-10	12
A11-MW7D-34.5-35	08-177-11	19
A11-MW7D-42-43	08-177-13	4
A11-MW7D-53-54	08-177-15	8
A11-MW7D-59-60	08-177-16	8
A11-MW7D-63-64	08-177-18	12
A11-MW7D-66-67	08-177-19	10





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: Geo Engineers

Project Number: 0183-1009-01 T500

Project Name: NWT-2016-RI

Project Manager: Tricia DeDome

Sampled by: SCD/Rc

Turnaround Request (in working days)
(Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: **08-1777**

Lab ID Sample Identification

Date Sampled

Time Sampled

Matrix

Number of Containers

NWTPH-HCID
NWTPH-Gx/BTEX
NWTPH-Gx
NWTPH-Dx (Acid / SG Clean-up)
Volatiles 8260C
Halogenated Volatiles 8260C
EDB EPA 8011 (Waters Only)
Semivolatiles 8270D/SIM (with low-level PAHs)
PAHs 8270D/SIM (low-level)
PCBs 8082A
Organochlorine Pesticides 8081B
Organophosphorus Pesticides 8270D/SIM
Chlorinated Acid Herbicides 8151A
Total RCRA Metals
Total MTCA Metals
TCLP Metals
HEM (oil and grease) 1664A
% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	A11-MW7D-1-2	8/11/16	1540	S	4	8/11/16	1650	
2	A11-MW7D-5-5.5		1545	S	4	8/11/16	1650	
3	A11-MW7D-9-10		1600	S	4	8/11/16	1650	
4	A11-MW7D-14-15		1605	S	4	8/11/16	1650	
5	A11-MW7D-18-18.5		1610	S	4	8/11/16	1650	
6	A11-MW7D-18.5-19		1615	S	4	8/11/16	1650	
	HP-20160811							
	SCD							
Received	Signature	Company	Date	Time	Comments/Special Instructions			
Received		Geo Engineers	8/11/16	1650				
Received		Geo Engineers	8/11/16	1650				
Received		Geo Engineers	8/12/16	1545				
Received		Alpha	8/12	1545				
Received		Alpha	8/12	1545				
Received		Alpha	8/12	1657				
Reviewed/Date	Reviewed/Date	Reviewed/Date	Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>					
Reviewed/Date	Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>					



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 26, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-177B

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 12, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 26, 2016
Samples Submitted: August 12, 2016
Laboratory Reference: 1608-177B
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 12, 2016 and received by the laboratory on August 12, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: August 26, 2016
Samples Submitted: August 12, 2016
Laboratory Reference: 1608-177B
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
TB-20160812	08-177-17	Water	8-12-16	8-12-16	



Date of Report: August 26, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160812					
Laboratory ID:	08-177-17					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	



Date of Report: August 26, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160812					
Laboratory ID:	08-177-17					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.26	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: August 26, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0825W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	



Date of Report: August 26, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0825W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.26	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: August 26, 2016
 Samples Submitted: August 12, 2016
 Laboratory Reference: 1608-177B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0825W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	9.76	10.0	10.0	101	98	62-132	3	20	
Benzene	10.1	10.1	10.0	10.0	101	101	75-121	0	15	
Trichloroethene	8.73	8.77	10.0	10.0	87	88	65-115	0	15	
Toluene	10.0	10.0	10.0	10.0	100	100	78-120	0	15	
Chlorobenzene	9.27	9.07	10.0	10.0	93	91	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>108</i>	<i>71-131</i>			
<i>Toluene-d8</i>					<i>99</i>	<i>97</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>94</i>	<i>94</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

 (other)

Laboratory Number: **08-177**

Company: **Geo Engineers**
 Project Number: **0183-1091-01 T500**
 Project Name: **NWT-2016-RI**
 Project Manager: **Triaa DeDome**
 Sampled by: **SCD/Rc**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	A11-MW7D-1-2	8/11/16	1540	S	4
2	A11-MW7D-5-5.5		1545		
3	A11-MW7D-9-10		1600		
4	A11-MW7D-14-15		1605		
5	A11-MW7D-18-18.5		1610		
6	A11-MW7D-18.5-19		1615		

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	A11-MW7D-1-2	8/11/16	1540	S	4																		
2	A11-MW7D-5-5.5		1545								X												
3	A11-MW7D-9-10		1600																				
4	A11-MW7D-14-15		1605								X												
5	A11-MW7D-18-18.5		1610								X												
6	A11-MW7D-18.5-19		1615								X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	Geo Engineers	8/11/16	1650	
<i>[Signature]</i>	Geo Engineers	8/11/16	1650	
<i>[Signature]</i>	Geo Engineers	8/12/16	1545	
<i>[Signature]</i>	Alpha	8/12	1545	
<i>[Signature]</i>	Alpha	8/12	1657	
<i>[Signature]</i>	Alpha	8/16	1657	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



Onsite Environmental Inc.
 Analytical Laboratory Testing Services
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 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: GeoEngineers
 Project Number: 0183-109-01 T500
 Project Name: WWT-2016 RI
 Project Manager: Irilia DeOme
 Sampled by: JP/RC

Turnaround Request (In working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: 08-177

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Comments/Special Instructions
17	TR-2016082	8/12/16	—	W	1	
18	A11-MWTD-63-64		1300	S	4	
19	A11-MWTD-66-67		1305	S	4	
20	A11-MWTD-18.5-21-W		1320	W	6	

Number of Containers	Analysis	Result
	NWTPH-HCID	
	NWTPH-Gx/BTEX	
	NWTPH-Gx	
	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
	Volatiles 8260C	
	Halogenated Volatiles 8260C	<input checked="" type="checkbox"/>
	EDB EPA 8011 (Waters Only)	
	Semivolatiles 8270D/SIM (with low-level PAHs)	
	PAHs 8270D/SIM (low-level)	
	PCBs 8082A	
	Organochlorine Pesticides 8081B	
	Organophosphorus Pesticides 8270D/SIM	
	Chlorinated Acid Herbicides 8151A	
	Total RCRA Metals	
	Total MTCA Metals	
	TCLP Metals	
	HEM (oil and grease) 1664A	
	% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
	GEIS	8/12/16	1400	⊗ Added 8/25/16. DB (STA)
	GE1	8/17/16	1545	
	GE1	8/12/16	1505	
	Alpha	8/12	1545	
	Alpha	8/12	1657	
Reviewed/Date	Reviewed/Date			

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 25, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-196

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-196
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 15, 2016 and received by the laboratory on August 15, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-196
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW7S-4-5	08-196-03	Soil	8-15-16	8-15-16	
A11-MW7S-9-10	08-196-04	Soil	8-15-16	8-15-16	
A11-MW7S-15-16	08-196-05	Soil	8-15-16	8-15-16	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-196
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-4-5					
Laboratory ID:	08-196-03					
Dichlorodifluoromethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0079	0.00077	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-4-5					
Laboratory ID:	08-196-03					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-9-10					
Laboratory ID:	08-196-04					
Dichlorodifluoromethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.032	0.00070	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-9-10					
Laboratory ID:	08-196-04					
1,1,2-Trichloroethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00070	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-15-16					
Laboratory ID:	08-196-05					
Dichlorodifluoromethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.043	0.00071	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-15-16					
Laboratory ID:	08-196-05					
1,1,2-Trichloroethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00071	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0818S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-196
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0819S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>Dibromofluoromethane</i>	<i>115</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-196
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0818S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0486	0.0500	0.0500	90	97	68-126	7	15	
Benzene	0.0424	0.0463	0.0500	0.0500	85	93	75-121	9	15	
Trichloroethene	0.0514	0.0548	0.0500	0.0500	103	110	75-120	6	15	
Toluene	0.0500	0.0528	0.0500	0.0500	100	106	80-120	5	15	
Chlorobenzene	0.0455	0.0484	0.0500	0.0500	91	97	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>104</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>102</i>	<i>60-146</i>			



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-196
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0819S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0473	0.0500	0.0500	90	95	68-126	5	15	
Benzene	0.0455	0.0477	0.0500	0.0500	91	95	75-121	5	15	
Trichloroethene	0.0482	0.0470	0.0500	0.0500	96	94	75-120	3	15	
Toluene	0.0480	0.0489	0.0500	0.0500	96	98	80-120	2	15	
Chlorobenzene	0.0467	0.0467	0.0500	0.0500	93	93	76-120	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	101	76-131			
<i>Toluene-d8</i>					100	99	80-126			
<i>4-Bromofluorobenzene</i>					89	91	60-146			



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-196
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-18-16

Client ID	Lab ID	% Moisture
A11-MW7S-4-5	08-196-03	10
A11-MW7S-9-10	08-196-04	11
A11-MW7S-15-16	08-196-05	10





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-196**

Company: Geo Engineers
 Project Number: 0183-109-01 T500
 Project Name: UWT-2016-PZ
 Project Manager: Tricia DeOnne
 Sampled by: JCD/RC

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	All-NW75-1-2	8/15/16	0915	S	4
2	Dupl - 28/60815		0700		
3	All-NW75-4-5		0920		
4	All-NW75-9-10		0915		
5	All-NW75-15-16		0950		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
4						(X)												(X)
						(X)												(X)
						(X)												(X)
						(X)												(X)

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEI	8/15/16	1420	(X) Added 8/16/16, DB (STA)
<i>[Signature]</i>	Alpha	8/15/16	1420	
<i>[Signature]</i>	Alpha	8/15	1518	
<i>[Signature]</i>	Alpha	8/15/16	1518	

Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 2, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-197

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 2, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 15, 2016 and received by the laboratory on August 15, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Total Metals EPA 6010C/7471B Analysis

The duplicate RPD for Barium is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Silver are outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 99%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 2, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW9S-0-1	08-197-01	Soil	8-15-16	8-15-16	
A11-MW9S-2-3	08-197-03	Soil	8-15-16	8-15-16	
A11-MW9S-4-5	08-197-05	Soil	8-15-16	8-15-16	
A11-MW9S-11.5-12.5	08-197-10	Soil	8-15-16	8-15-16	
A11-MW9S-17-18	08-197-11	Soil	8-15-16	8-15-16	
A11-MW9S-18-19	08-197-12	Soil	8-15-16	8-15-16	
A11-MW9S-23.5-24.5	08-197-13	Soil	8-15-16	8-15-16	
A11-MW9S-29.5-30	08-197-14	Soil	8-15-16	8-15-16	
TB-20160815	08-197-15	Water	8-15-16	8-15-16	



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Gasoline Range Organics	ND	24	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	60	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil	Detected	120	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>67</i>	<i>50-150</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-2-3					
Laboratory ID:	08-197-03					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>121</i>	<i>50-150</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Diesel Range Organics	ND	44	NWTPH-Dx	8-23-16	8-23-16	U1
Lube Oil	270	60	NWTPH-Dx	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	52	50-150				



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-11.5-12.5					
Laboratory ID:	08-197-10					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0020	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-11.5-12.5					
Laboratory ID:	08-197-10					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-17-18					
Laboratory ID:	08-197-11					
Dichlorodifluoromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0047	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-17-18					
Laboratory ID:	08-197-11					
1,1,2-Trichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-18-19					
Laboratory ID:	08-197-12					
Dichlorodifluoromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0023	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-18-19					
Laboratory ID:	08-197-12					
1,1,2-Trichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-23.5-24.5					
Laboratory ID:	08-197-13					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-23.5-24.5					
Laboratory ID:	08-197-13					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-29.5-30					
Laboratory ID:	08-197-14					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0013	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-29.5-30					
Laboratory ID:	08-197-14					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Dichlorodifluoromethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.011	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.011	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.011	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
1,1,2-Trichloroethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.011	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.011	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0022	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>122</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-4-5					
Laboratory ID:	08-197-05					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-4-5					
Laboratory ID:	08-197-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>130</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160815					
Laboratory ID:	08-197-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160815					
Laboratory ID:	08-197-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.26	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Naphthalene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Fluorene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Phenanthrene	0.017	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Anthracene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Fluoranthene	0.022	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Pyrene	0.028	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[a]anthracene	0.014	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Chrysene	0.033	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[b]fluoranthene	0.038	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo(j,k)fluoranthene	0.0095	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[a]pyrene	0.027	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Indeno(1,2,3-c,d)pyrene	0.0096	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[g,h,i]perylene	0.016	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>68</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>85</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>81</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-2-3					
Laboratory ID:	08-197-03					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	0.012	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	0.027	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	0.030	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	0.019	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	0.022	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	0.023	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	0.0090	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	0.022	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	0.014	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	0.018	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	63	32 - 115				
<i>Pyrene-d10</i>	73	30 - 124				
<i>Terphenyl-d14</i>	82	30 - 117				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	08-197-01					
Client ID:	A11-MW9S-0-1					
Arsenic	ND	12	6010C	8-17-16	8-17-16	
Barium	61	3.0	6010C	8-18-16	8-18-16	
Cadmium	ND	0.60	6010C	8-17-16	8-17-16	
Chromium	32	0.60	6010C	8-17-16	8-17-16	
Lead	19	6.0	6010C	8-17-16	8-17-16	
Mercury	ND	0.30	7471B	8-18-16	8-18-16	
Selenium	ND	12	6010C	8-17-16	8-17-16	
Silver	ND	1.2	6010C	8-17-16	8-17-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	08-197-03					
Client ID:	A11-MW9S-2-3					
Arsenic	ND	11	6010C	8-29-16	8-29-16	
Barium	62	2.7	6010C	8-29-16	8-29-16	
Cadmium	ND	0.54	6010C	8-29-16	8-29-16	
Chromium	40	0.54	6010C	8-29-16	8-29-16	
Lead	26	5.4	6010C	8-29-16	8-29-16	
Mercury	ND	0.27	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-29-16	8-29-16	
Silver	ND	1.1	6010C	8-29-16	8-29-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



Date of Report: September 2, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-23-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	63	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-249-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				78	76	50-150		



Date of Report: September 2, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	



Date of Report: September 2, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0818S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0486	0.0500	0.0500	90	97	68-126	7	15	
Benzene	0.0424	0.0463	0.0500	0.0500	85	93	75-121	9	15	
Trichloroethene	0.0514	0.0548	0.0500	0.0500	103	110	75-120	6	15	
Toluene	0.0500	0.0528	0.0500	0.0500	100	106	80-120	5	15	
Chlorobenzene	0.0455	0.0484	0.0500	0.0500	91	97	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>104</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>102</i>	<i>60-146</i>			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0825S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0825S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S2					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0826S2						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0825S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0488	0.0495	0.0500	0.0500	98	99	68-126	1	15	
Benzene	0.0533	0.0533	0.0500	0.0500	107	107	70-121	0	15	
Trichloroethene	0.0499	0.0503	0.0500	0.0500	100	101	75-120	1	15	
Toluene	0.0517	0.0517	0.0500	0.0500	103	103	80-120	0	15	
Chlorobenzene	0.0478	0.0495	0.0500	0.0500	96	99	76-120	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					121	122	76-131			
<i>Toluene-d8</i>					117	115	80-126			
<i>4-Bromofluorobenzene</i>					106	106	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0826S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0427	0.0460	0.0500	0.0500	85	92	68-126	7	15	
Benzene	0.0478	0.0508	0.0500	0.0500	96	102	70-121	6	15	
Trichloroethene	0.0436	0.0467	0.0500	0.0500	87	93	75-120	7	15	
Toluene	0.0450	0.0498	0.0500	0.0500	90	100	80-120	10	15	
Chlorobenzene	0.0436	0.0457	0.0500	0.0500	87	91	76-120	5	15	
<i>Surrogate:</i>										
Dibromofluoromethane					103	107	76-131			
Toluene-d8					98	102	80-126			
4-Bromofluorobenzene					91	94	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0825W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloromethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Iodomethane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-25-16	8-25-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chloroform	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Trichloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromomethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	8-25-16	8-25-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-25-16	8-25-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0825W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Bromoform	ND	1.0	EPA 8260C	8-25-16	8-25-16	
Bromobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichloropropane	ND	0.26	EPA 8260C	8-25-16	8-25-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-25-16	8-25-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0825W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	9.76	10.0	10.0	101	98	62-132	3	20	
Benzene	10.1	10.1	10.0	10.0	101	101	75-121	0	15	
Trichloroethene	8.73	8.77	10.0	10.0	87	88	65-115	0	15	
Toluene	10.0	10.0	10.0	10.0	100	100	78-120	0	15	
Chlorobenzene	9.27	9.07	10.0	10.0	93	91	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					104	108	71-131			
<i>Toluene-d8</i>					99	97	80-127			
<i>4-Bromofluorobenzene</i>					94	94	80-125			



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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S3					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>90</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>102</i>	<i>30 - 117</i>				



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**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0822S3									
Naphthalene	0.0752	0.0703	0.0833	0.0833	90	84	61 - 112	7	15	
Acenaphthylene	0.0886	0.0796	0.0833	0.0833	106	96	65 - 116	11	15	
Acenaphthene	0.0819	0.0737	0.0833	0.0833	98	88	62 - 116	11	13	
Fluorene	0.0807	0.0786	0.0833	0.0833	97	94	60 - 115	3	15	
Phenanthrene	0.0756	0.0754	0.0833	0.0833	91	91	54 - 114	0	15	
Anthracene	0.0937	0.0935	0.0833	0.0833	112	112	70 - 140	0	15	
Fluoranthene	0.0825	0.0843	0.0833	0.0833	99	101	60 - 118	2	15	
Pyrene	0.0813	0.0838	0.0833	0.0833	98	101	65 - 115	3	15	
Benzo[a]anthracene	0.0923	0.0946	0.0833	0.0833	111	114	59 - 129	2	15	
Chrysene	0.0776	0.0809	0.0833	0.0833	93	97	60 - 122	4	15	
Benzo[b]fluoranthene	0.0818	0.0849	0.0833	0.0833	98	102	53 - 124	4	17	
Benzo(j,k)fluoranthene	0.0837	0.0873	0.0833	0.0833	100	105	58 - 124	4	16	
Benzo[a]pyrene	0.0932	0.0959	0.0833	0.0833	112	115	62 - 127	3	15	
Indeno(1,2,3-c,d)pyrene	0.0880	0.0912	0.0833	0.0833	106	109	60 - 120	4	15	
Dibenz[a,h]anthracene	0.0890	0.0914	0.0833	0.0833	107	110	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0841	0.0874	0.0833	0.0833	101	105	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					82	74	32 - 115			
Pyrene-d10					90	92	30 - 124			
Terphenyl-d14					100	102	30 - 117			



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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>30 - 117</i>				



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**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0826S1									
Naphthalene	0.0713	0.0733	0.0833	0.0833	86	88	61 - 112	3	15	
Acenaphthylene	0.0674	0.0682	0.0833	0.0833	81	82	65 - 116	1	15	
Acenaphthene	0.0659	0.0652	0.0833	0.0833	79	78	62 - 116	1	13	
Fluorene	0.0732	0.0737	0.0833	0.0833	88	88	60 - 115	1	15	
Phenanthrene	0.0676	0.0682	0.0833	0.0833	81	82	54 - 114	1	15	
Anthracene	0.0830	0.0849	0.0833	0.0833	100	102	70 - 140	2	15	
Fluoranthene	0.0728	0.0745	0.0833	0.0833	87	89	60 - 118	2	15	
Pyrene	0.0737	0.0756	0.0833	0.0833	88	91	65 - 115	3	15	
Benzo[a]anthracene	0.0690	0.0728	0.0833	0.0833	83	87	59 - 129	5	15	
Chrysene	0.0740	0.0737	0.0833	0.0833	89	88	60 - 122	0	15	
Benzo[b]fluoranthene	0.0638	0.0620	0.0833	0.0833	77	74	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0677	0.0743	0.0833	0.0833	81	89	58 - 124	9	16	
Benzo[a]pyrene	0.0693	0.0710	0.0833	0.0833	83	85	62 - 127	2	15	
Indeno(1,2,3-c,d)pyrene	0.0641	0.0661	0.0833	0.0833	77	79	60 - 120	3	15	
Dibenz[a,h]anthracene	0.0640	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0669	0.0694	0.0833	0.0833	80	83	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					80	79	32 - 115			
Pyrene-d10					84	83	30 - 124			
Terphenyl-d14					88	88	30 - 117			



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**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-17&18-16
Date Analyzed: 8-17&18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0817SM2&MB0818SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



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Laboratory Reference: 1608-197
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUARCURY CONTROL**

Date Extracted: 8-18-16
Date Analyzed: 8-18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0818S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-17&18-16
 Date Analyzed: 8-17&18-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-175-09

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	101	77.2	27	2.5	K
Cadmium	ND	ND	NA	0.50	
Chromium	59.2	60.0	1	0.50	
Lead	ND	5.55	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



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Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-18-16
Date Analyzed: 8-18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-17&18-16

Date Analyzed: 8-17&18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-175-09

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	82.2	82	81.4	81	1	
Barium	100	196	95	200	99	2	
Cadmium	50.0	45.5	91	46.6	93	2	
Chromium	100	149	90	150	91	1	
Lead	250	215	86	225	90	5	
Selenium	100	86.0	86	85.4	85	1	
Silver	25.0	18.9	76	17.9	72	5	V



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**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-18-16

Date Analyzed: 8-18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.467	93	0.571	114	20	



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**TOTAL METALS
 EPA 6010C
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-29-16
 Date Analyzed: 8-29-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0829SM2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



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**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUARCURY CONTROL**

Date Extracted: 8-29-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0829S2

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 2, 2016
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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-29-16
 Date Analyzed: 8-29-16
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: 08-282-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	104	107	3	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	59.6	58.2	3	0.50	
Lead	41.7	38.2	9	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 2, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



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**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-29-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-282-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	81.3	81	85.7	86	5	
Barium	100	210	106	207	103	2	
Cadmium	50.0	45.9	92	46.1	92	0	
Chromium	100	144	85	144	85	0	
Lead	250	255	85	249	83	2	
Selenium	100	81.9	82	82.6	83	1	
Silver	25.0	20.6	82	21.4	85	4	



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**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.448	90	0.448	90	0	



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% MOISTURE

Date Analyzed: 8-18&25-16

Client ID	Lab ID	% Moisture
A11-MW9S-0-1	08-197-01	16
A11-MW9S-2-3	08-197-03	8
A11-MW9S-4-5	08-197-05	7
A11-MW9S-11.5-12.5	08-197-10	11
A11-MW9S-17-18	08-197-11	9
A11-MW9S-18-19	08-197-12	12
A11-MW9S-23.5-24.5	08-197-13	9
A11-MW9S-29.5-30	08-197-14	17



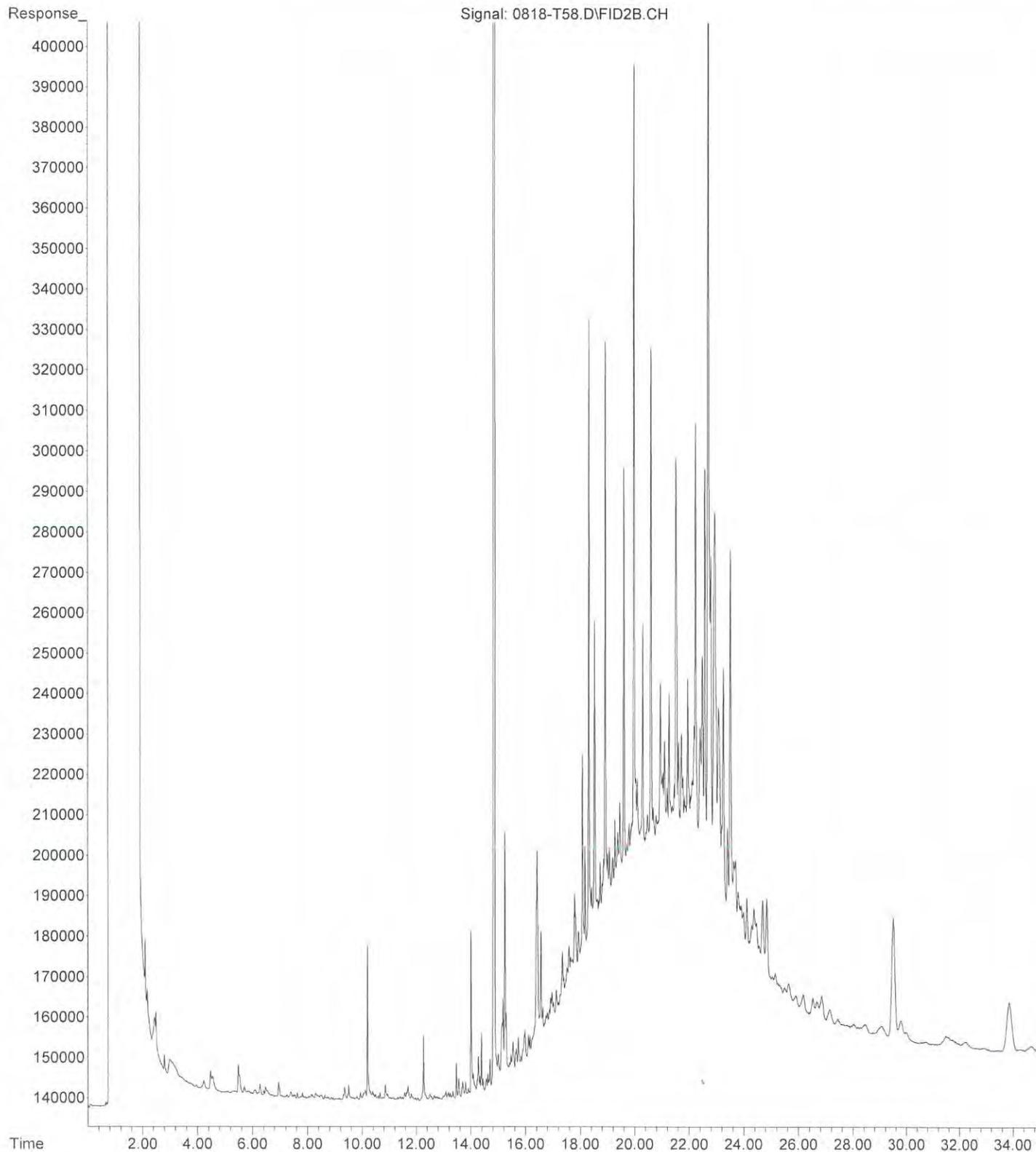


Data Qualifiers and Abbreviations

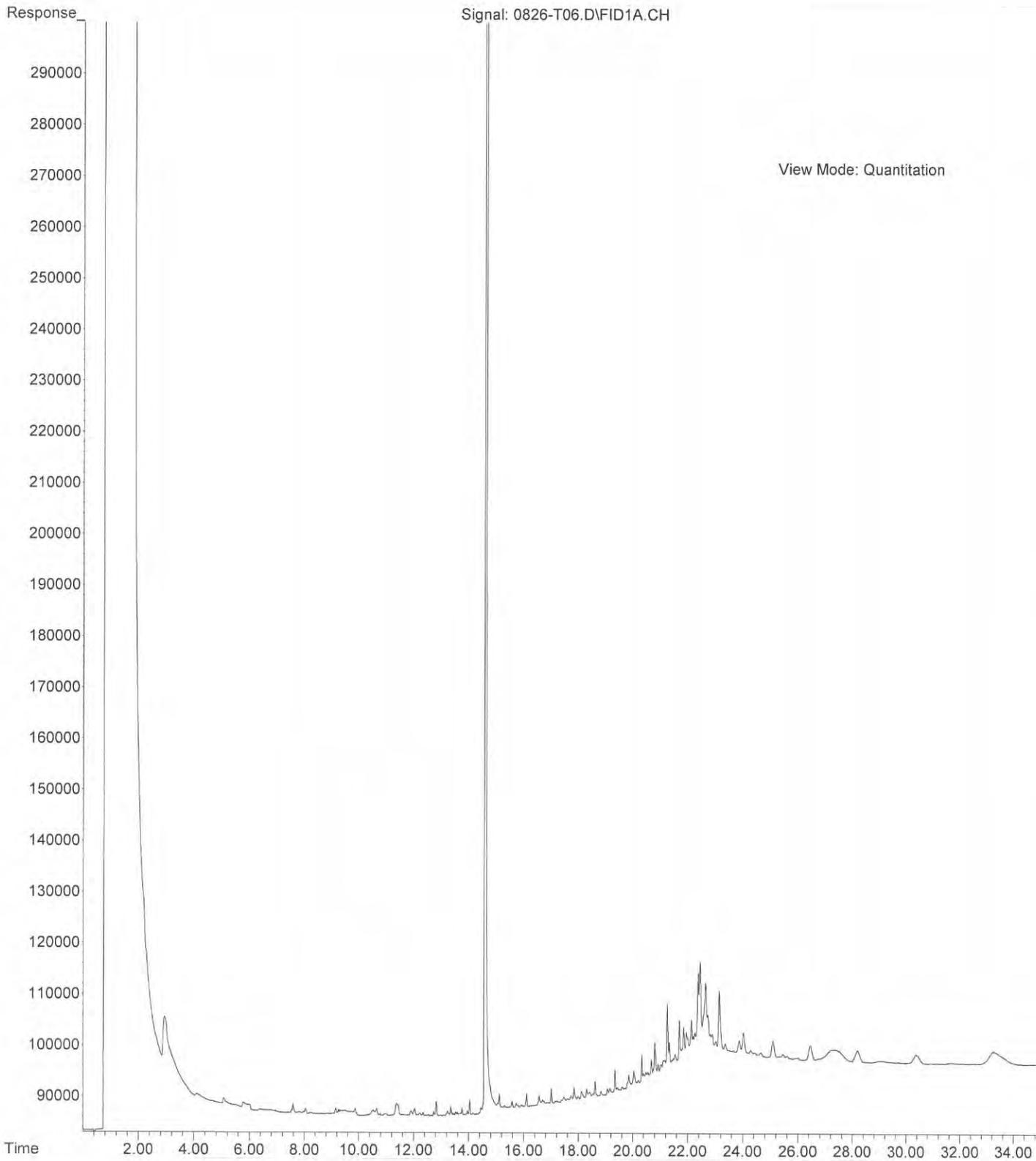
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



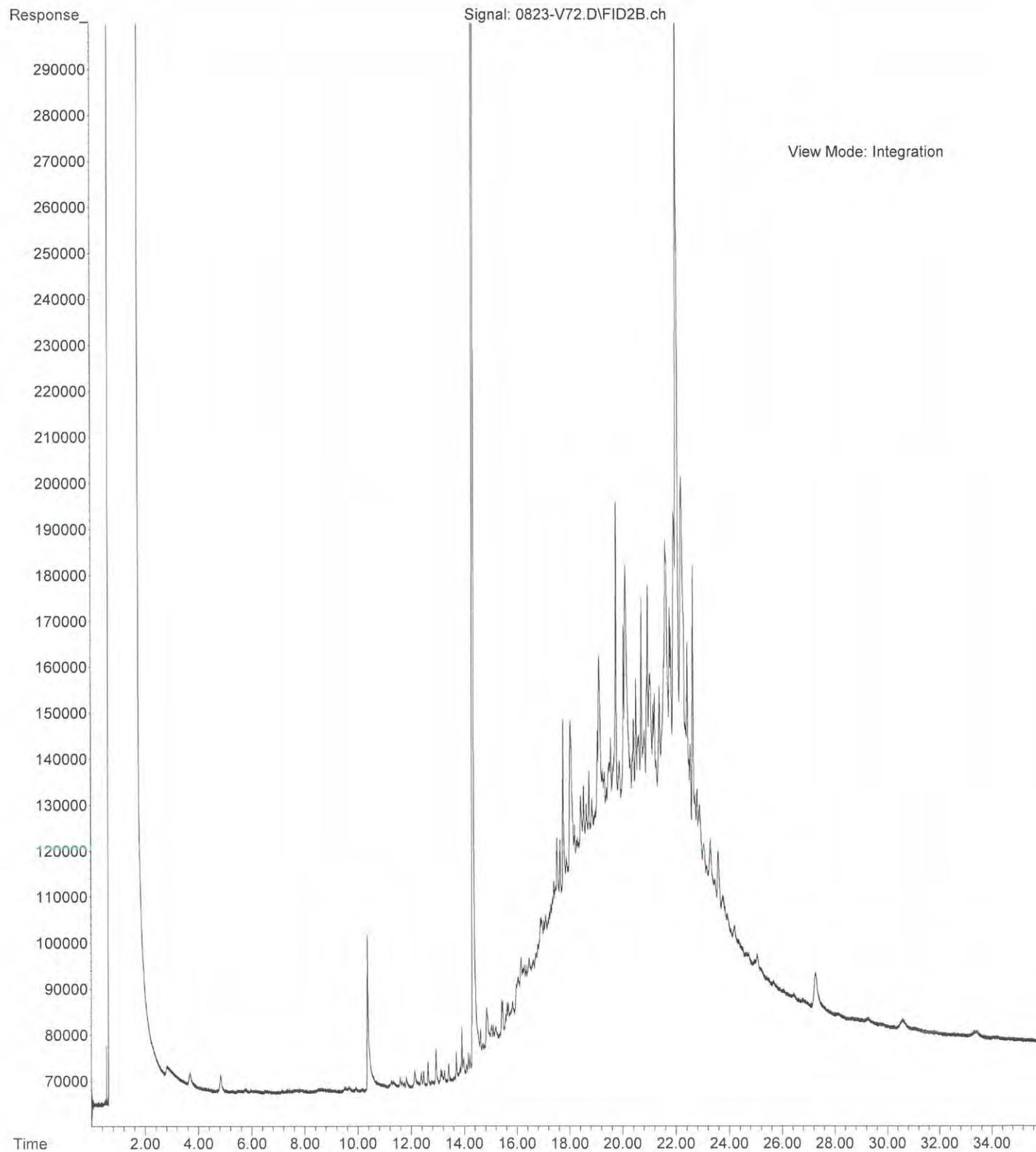
File :X:\DIESELS\TERI\DATA\T160818.SEC\0818-T58.D
Operator : ZT
Acquired : 18 Aug 2016 17:25 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-197-01 HC
Misc Info :
Vial Number: 58



File :X:\DIESELS\TERI\DATA\T160826\0826-T06.D
Operator : ZT
Acquired : 26 Aug 2016 13:05 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-197-03
Misc Info :
Vial Number: 6



File : X:\DIESELS\VIGO\DATA\V160823.SEC\0823-V72.D
Operator :
Acquired : 24 Aug 2016 00:04 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-197-01
Misc Info :
Vial Number: 72





MA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 893-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: **08-197**

Company: **Geo Engineers**
 Project Number: **0183-109-01 T500**
 Project Name: **DWT-2016-RI**
 Project Manager: **Tricia DeCme**
 Sampled by: **SED/RC**

Turnaround Request
 (In working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	A11-MW95-17-18	8/15/16	1335	S	4
12	A11-MW95-18-14		1340		1
13	A11-MW95-23.5-24.5		1350		1
14	A11-MW95-29.5-30		1355		1
15	TB-20160815				1

Analysis	Result
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	<input checked="" type="checkbox"/>
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	<input checked="" type="checkbox"/>

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GET	8/16/16	1420	
Received		Alpha	8/15	1420	
Relinquished		Alpha	8/15	1518	
Received		OSTE	8/15/16	1518	
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 25, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-197

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 15, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 15, 2016 and received by the laboratory on August 15, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Total Metals EPA 6010C/7471B Analysis

The duplicate RPD for Barium is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Silver are outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 99%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW9S-0-1	08-197-01	Soil	8-15-16	8-15-16	
A11-MW9S-11.5-12.5	08-197-10	Soil	8-15-16	8-15-16	
A11-MW9S-17-18	08-197-11	Soil	8-15-16	8-15-16	
A11-MW9S-18-19	08-197-12	Soil	8-15-16	8-15-16	
A11-MW9S-23.5-24.5	08-197-13	Soil	8-15-16	8-15-16	
A11-MW9S-29.5-30	08-197-14	Soil	8-15-16	8-15-16	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Gasoline Range Organics	ND	24	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	60	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil	Detected	120	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	50-150				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Diesel Range Organics	ND	44	NWTPH-Dx	8-23-16	8-23-16	U1
Lube Oil	270	60	NWTPH-Dx	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	52	50-150				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-11.5-12.5					
Laboratory ID:	08-197-10					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0020	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-11.5-12.5					
Laboratory ID:	08-197-10					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-17-18					
Laboratory ID:	08-197-11					
Dichlorodifluoromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0047	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-17-18					
Laboratory ID:	08-197-11					
1,1,2-Trichloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00079	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-18-19					
Laboratory ID:	08-197-12					
Dichlorodifluoromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0023	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-18-19					
Laboratory ID:	08-197-12					
1,1,2-Trichloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00078	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-23.5-24.5					
Laboratory ID:	08-197-13					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-23.5-24.5					
Laboratory ID:	08-197-13					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-29.5-30					
Laboratory ID:	08-197-14					
Dichlorodifluoromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	0.0013	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-29.5-30					
Laboratory ID:	08-197-14					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-0-1					
Laboratory ID:	08-197-01					
Naphthalene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
2-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
1-Methylnaphthalene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Acenaphthylene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Acenaphthene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Fluorene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Phenanthrene	0.017	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Anthracene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Fluoranthene	0.022	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Pyrene	0.028	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[a]anthracene	0.014	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Chrysene	0.033	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[b]fluoranthene	0.038	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo(j,k)fluoranthene	0.0095	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[a]pyrene	0.027	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Indeno(1,2,3-c,d)pyrene	0.0096	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Dibenz[a,h]anthracene	ND	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
Benzo[g,h,i]perylene	0.016	0.0080	EPA 8270D/SIM	8-22-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	68	32 - 115				
<i>Pyrene-d10</i>	85	30 - 124				
<i>Terphenyl-d14</i>	81	30 - 117				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	08-197-01					
Client ID:	A11-MW9S-0-1					
Arsenic	ND	12	6010C	8-17-16	8-17-16	
Barium	61	3.0	6010C	8-18-16	8-18-16	
Cadmium	ND	0.60	6010C	8-17-16	8-17-16	
Chromium	32	0.60	6010C	8-17-16	8-17-16	
Lead	19	6.0	6010C	8-17-16	8-17-16	
Mercury	ND	0.30	7471B	8-18-16	8-18-16	
Selenium	ND	12	6010C	8-17-16	8-17-16	
Silver	ND	1.2	6010C	8-17-16	8-17-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S2					
Diesel Range Organics	ND	25	NWTPH-Dx	8-23-16	8-24-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-23-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	63	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-249-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				78	76	50-150		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloromethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Iodomethane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chloroform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0818S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromoform	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-18-16	8-18-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0818S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0486	0.0500	0.0500	90	97	68-126	7	15	
Benzene	0.0424	0.0463	0.0500	0.0500	85	93	75-121	9	15	
Trichloroethene	0.0514	0.0548	0.0500	0.0500	103	110	75-120	6	15	
Toluene	0.0500	0.0528	0.0500	0.0500	100	106	80-120	5	15	
Chlorobenzene	0.0455	0.0484	0.0500	0.0500	91	97	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>100</i>	<i>104</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>102</i>	<i>60-146</i>			



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S3					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>90</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>102</i>	<i>30 - 117</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0822S3									
Naphthalene	0.0752	0.0703	0.0833	0.0833	90	84	61 - 112	7	15	
Acenaphthylene	0.0886	0.0796	0.0833	0.0833	106	96	65 - 116	11	15	
Acenaphthene	0.0819	0.0737	0.0833	0.0833	98	88	62 - 116	11	13	
Fluorene	0.0807	0.0786	0.0833	0.0833	97	94	60 - 115	3	15	
Phenanthrene	0.0756	0.0754	0.0833	0.0833	91	91	54 - 114	0	15	
Anthracene	0.0937	0.0935	0.0833	0.0833	112	112	70 - 140	0	15	
Fluoranthene	0.0825	0.0843	0.0833	0.0833	99	101	60 - 118	2	15	
Pyrene	0.0813	0.0838	0.0833	0.0833	98	101	65 - 115	3	15	
Benzo[a]anthracene	0.0923	0.0946	0.0833	0.0833	111	114	59 - 129	2	15	
Chrysene	0.0776	0.0809	0.0833	0.0833	93	97	60 - 122	4	15	
Benzo[b]fluoranthene	0.0818	0.0849	0.0833	0.0833	98	102	53 - 124	4	17	
Benzo(j,k)fluoranthene	0.0837	0.0873	0.0833	0.0833	100	105	58 - 124	4	16	
Benzo[a]pyrene	0.0932	0.0959	0.0833	0.0833	112	115	62 - 127	3	15	
Indeno(1,2,3-c,d)pyrene	0.0880	0.0912	0.0833	0.0833	106	109	60 - 120	4	15	
Dibenz[a,h]anthracene	0.0890	0.0914	0.0833	0.0833	107	110	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0841	0.0874	0.0833	0.0833	101	105	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					82	74	32 - 115			
Pyrene-d10					90	92	30 - 124			
Terphenyl-d14					100	102	30 - 117			



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-17&18-16
 Date Analyzed: 8-17&18-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0817SM2&MB0818SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUARCURY CONTROL**

Date Extracted: 8-18-16
Date Analyzed: 8-18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0818S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-17&18-16
 Date Analyzed: 8-17&18-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-175-09

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	101	77.2	27	2.5	K
Cadmium	ND	ND	NA	0.50	
Chromium	59.2	60.0	1	0.50	
Lead	ND	5.55	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-18-16
Date Analyzed: 8-18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: August 25, 2016
 Samples Submitted: August 15, 2016
 Laboratory Reference: 1608-197
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-17&18-16
 Date Analyzed: 8-17&18-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-175-09

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	82.2	82	81.4	81	1	
Barium	100	196	95	200	99	2	
Cadmium	50.0	45.5	91	46.6	93	2	
Chromium	100	149	90	150	91	1	
Lead	250	215	86	225	90	5	
Selenium	100	86.0	86	85.4	85	1	
Silver	25.0	18.9	76	17.9	72	5	V



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-18-16

Date Analyzed: 8-18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.467	93	0.571	114	20	



Date of Report: August 25, 2016
Samples Submitted: August 15, 2016
Laboratory Reference: 1608-197
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-18-16

Client ID	Lab ID	% Moisture
A11-MW9S-0-1	08-197-01	16
A11-MW9S-11.5-12.5	08-197-10	11
A11-MW9S-17-18	08-197-11	9
A11-MW9S-18-19	08-197-12	12
A11-MW9S-23.5-24.5	08-197-13	9
A11-MW9S-29.5-30	08-197-14	17



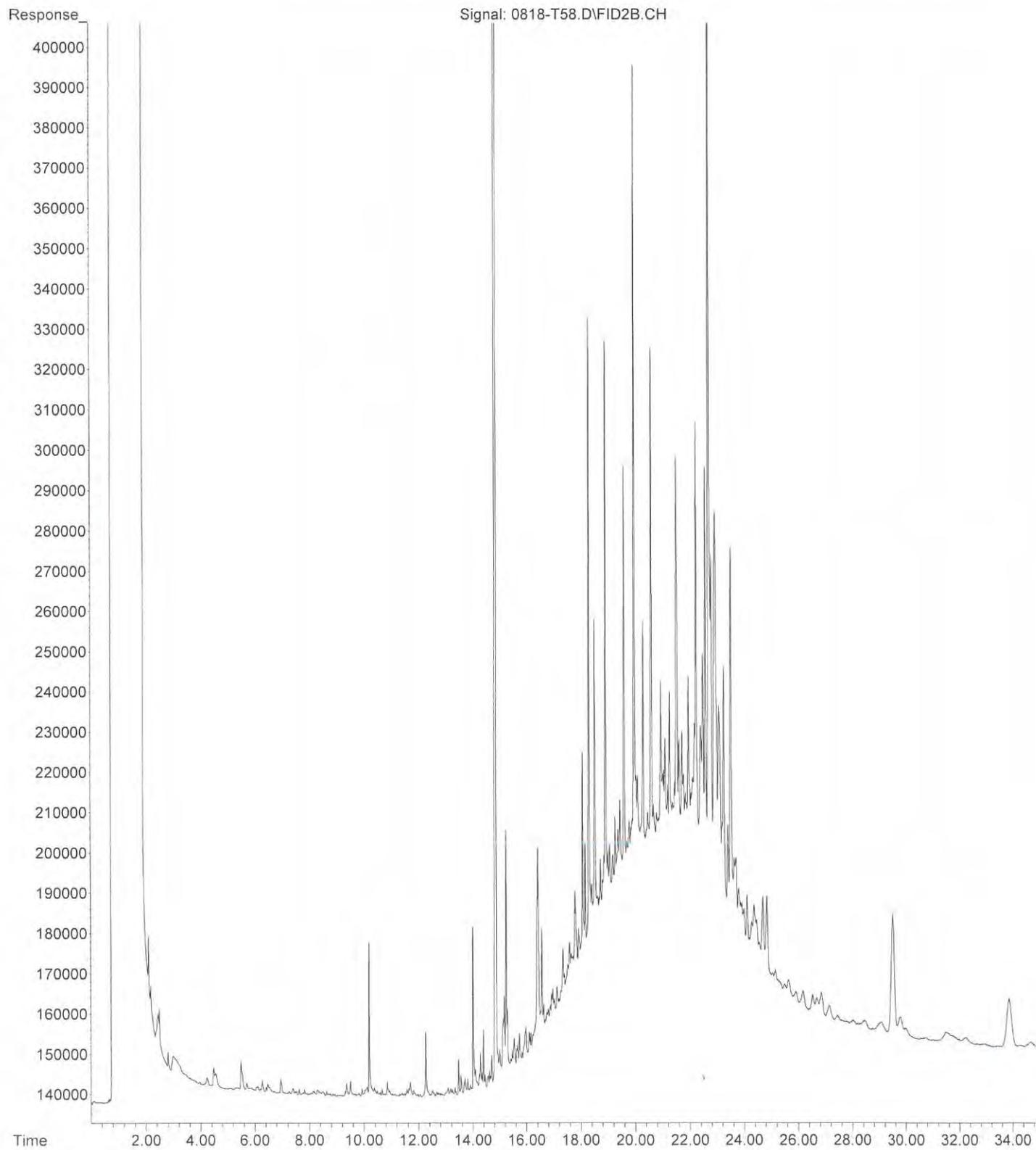


Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



File :X:\DIESELS\TERI\DATA\T160818.SEC\0818-T58.D
Operator : ZT
Acquired : 18 Aug 2016 17:25 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-197-01 HC
Misc Info :
Vial Number: 58





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 31, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-232

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 17, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 31, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-232
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 16, 2016 and received by the laboratory on August 17, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A9-MW1D-0-1	08-232-01	Soil	8-16-16	8-17-16	
A9-MW1D-4-5	08-232-02	Soil	8-16-16	8-17-16	
A9-MW1D-7-8	08-232-03	Soil	8-16-16	8-17-16	
A9-MW1D-9-10	08-232-04	Soil	8-16-16	8-17-16	
A9-MW1D-14-15	08-232-05	Soil	8-16-16	8-17-16	
A9-MW1D-19-20	08-232-06	Soil	8-16-16	8-17-16	
A9-MW1D-24-25	08-232-07	Soil	8-16-16	8-17-16	
A9-MW1D-30-31	08-232-08	Soil	8-16-16	8-17-16	
A9-MW1D-36-36.5	08-232-09	Soil	8-16-16	8-17-16	
A9-MW1D-38-39	08-232-10	Soil	8-16-16	8-17-16	
A9-MW1D-42-43	08-232-11	Soil	8-16-16	8-17-16	
A9-MW1D-49-50	08-232-12	Soil	8-16-16	8-17-16	
A9-MW1D-59-60	08-232-13	Soil	8-16-16	8-17-16	
A9-MW1D-69-70	08-232-14	Soil	8-16-16	8-17-16	
TB-20160816	08-232-15	Water	---	8-17-16	



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-0-1					
Laboratory ID:	08-232-01					
Gasoline Range Organics	ND	21	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	53	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil	Detected	110	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID:	A9-MW1D-4-5					
Laboratory ID:	08-232-02					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID:	A9-MW1D-7-8					
Laboratory ID:	08-232-03					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	56	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-4-5					
Laboratory ID:	08-232-02					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-4-5					
Laboratory ID:	08-232-02					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-9-10					
Laboratory ID:	08-232-04					
Dichlorodifluoromethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0030	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0030	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0030	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0020	0.00059	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0030	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-9-10					
Laboratory ID:	08-232-04					
1,1,2-Trichloroethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0030	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0030	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00059	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-14-15					
Laboratory ID:	08-232-05					
Dichlorodifluoromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0062	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0036	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-14-15					
Laboratory ID:	08-232-05					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-19-20					
Laboratory ID:	08-232-06					
Dichlorodifluoromethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0036	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0036	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0036	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0014	0.00072	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-19-20					
Laboratory ID:	08-232-06					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-24-25					
Laboratory ID:	08-232-07					
Dichlorodifluoromethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0041	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0041	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0041	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0062	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0029	0.00082	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-24-25					
Laboratory ID:	08-232-07					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-30-31					
Laboratory ID:	08-232-08					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0035	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0035	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0035	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0018	0.00069	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0035	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-30-31					
Laboratory ID:	08-232-08					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-36-36.5					
Laboratory ID:	08-232-09					
Dichlorodifluoromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0062	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	0.0018	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-36-36.5					
Laboratory ID:	08-232-09					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-38-39					
Laboratory ID:	08-232-10					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0047	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0047	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0047	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0071	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-38-39					
Laboratory ID:	08-232-10					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-42-43					
Laboratory ID:	08-232-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0055	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0055	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0055	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0083	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-42-43					
Laboratory ID:	08-232-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-49-50					
Laboratory ID:	08-232-12					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0053	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0053	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0053	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0079	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-49-50					
Laboratory ID:	08-232-12					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-59-60					
Laboratory ID:	08-232-13					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0048	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0048	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0048	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0072	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-59-60					
Laboratory ID:	08-232-13					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-69-70					
Laboratory ID:	08-232-14					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0078	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0070	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0053	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-69-70					
Laboratory ID:	08-232-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-0-1					
Laboratory ID:	08-232-01					
Naphthalene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
2-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
1-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthylene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Fluorene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Phenanthrene	0.011	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Anthracene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Fluoranthene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Pyrene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]anthracene	0.019	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Chrysene	0.013	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[b]fluoranthene	0.0076	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo(j,k)fluoranthene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]pyrene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[g,h,i]perylene	0.014	0.0070	EPA 8270D/SIM	8-19-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-232-01					
Client ID:	A9-MW1D-0-1					
Arsenic	ND	11	6010C	8-19-16	8-19-16	
Barium	49	2.6	6010C	8-19-16	8-19-16	
Cadmium	ND	0.53	6010C	8-19-16	8-19-16	
Chromium	29	0.53	6010C	8-19-16	8-19-16	
Lead	ND	5.3	6010C	8-19-16	8-19-16	
Mercury	ND	0.26	7471B	8-18-16	8-18-16	
Selenium	ND	11	6010C	8-19-16	8-19-16	
Silver	ND	1.1	6010C	8-19-16	8-19-16	



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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-0-1					
Laboratory ID:	08-232-01					
Diesel Range Organics	ND	53	NWTPH-Dx	8-25-16	8-26-16	
Lube Oil	510	110	NWTPH-Dx	8-25-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160816					
Laboratory ID:	08-232-15					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160816					
Laboratory ID:	08-232-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloromethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Iodomethane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
Methylene Chloride	ND	0.0075	EPA 8260C	8-19-16	8-19-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chloroform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0819S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromoform	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-19-16	8-19-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-19-16	8-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0073	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0066	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0050	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.010	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0822S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0819S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0476	0.0513	0.0500	0.0500	95	103	68-126	7	15	
Benzene	0.0437	0.0458	0.0500	0.0500	87	92	75-121	5	15	
Trichloroethene	0.0500	0.0540	0.0500	0.0500	100	108	75-120	8	15	
Toluene	0.0495	0.0542	0.0500	0.0500	99	108	80-120	9	15	
Chlorobenzene	0.0442	0.0463	0.0500	0.0500	88	93	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					102	101	76-131			
<i>Toluene-d8</i>					99	99	80-126			
<i>4-Bromofluorobenzene</i>					101	99	60-146			



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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0822S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0399	0.0416	0.0500	0.0500	80	83	68-126	4	15	
Benzene	0.0379	0.0374	0.0500	0.0500	76	75	75-121	1	15	
Trichloroethene	0.0443	0.0471	0.0500	0.0500	89	94	75-120	6	15	
Toluene	0.0439	0.0462	0.0500	0.0500	88	92	80-120	5	15	
Chlorobenzene	0.0455	0.0464	0.0500	0.0500	91	93	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>91</i>	<i>81</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>96</i>	<i>91</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>117</i>	<i>111</i>	<i>60-146</i>			



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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>98</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>105</i>	<i>30 - 117</i>				



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0819S1									
Naphthalene	0.0750	0.0778	0.0833	0.0833	90	93	61 - 112	4	15	
Acenaphthylene	0.0675	0.0580	0.0833	0.0833	81	70	65 - 116	15	15	
Acenaphthene	0.0752	0.0811	0.0833	0.0833	90	97	62 - 116	8	13	
Fluorene	0.0803	0.0725	0.0833	0.0833	96	87	60 - 115	10	15	
Phenanthrene	0.0710	0.0669	0.0833	0.0833	85	80	54 - 114	6	15	
Anthracene	0.0896	0.0834	0.0833	0.0833	108	100	70 - 140	7	15	
Fluoranthene	0.0854	0.0862	0.0833	0.0833	103	103	60 - 118	1	15	
Pyrene	0.0807	0.0818	0.0833	0.0833	97	98	65 - 115	1	15	
Benzo[a]anthracene	0.0649	0.0633	0.0833	0.0833	78	76	59 - 129	2	15	
Chrysene	0.0888	0.0922	0.0833	0.0833	107	111	60 - 122	4	15	
Benzo[b]fluoranthene	0.0747	0.0732	0.0833	0.0833	90	88	53 - 124	2	17	
Benzo(j,k)fluoranthene	0.0898	0.0952	0.0833	0.0833	108	114	58 - 124	6	16	
Benzo[a]pyrene	0.0888	0.0899	0.0833	0.0833	107	108	62 - 127	1	15	
Indeno(1,2,3-c,d)pyrene	0.0857	0.0878	0.0833	0.0833	103	105	60 - 120	2	15	
Dibenz[a,h]anthracene	0.0914	0.0941	0.0833	0.0833	110	113	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0774	0.0815	0.0833	0.0833	93	98	63 - 117	5	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					82	69	32 - 115			
Pyrene-d10					92	93	30 - 124			
Terphenyl-d14					96	99	30 - 117			



Date of Report: August 31, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-232
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-19-16
Date Analyzed: 8-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0819SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: August 31, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-232
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-18-16
Date Analyzed: 8-18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0818S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-19-16
 Date Analyzed: 8-19-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 08-244-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	31.1	31.9	3	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	26.6	28.2	6	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: August 31, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-232
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-18-16

Date Analyzed: 8-18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-19-16

Date Analyzed: 8-19-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-244-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	91.2	91	94.2	94	3	
Barium	100	130	99	133	102	2	
Cadmium	50.0	44.7	89	45.3	91	1	
Chromium	100	114	87	122	95	7	
Lead	250	218	87	222	89	2	
Selenium	100	91.1	91	89.2	89	2	
Silver	25.0	20.5	82	20.8	83	2	



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**TOTAL MERCURY
 EPA 7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-18-16

Date Analyzed: 8-18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.467	93	0.571	114	20	



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0825S3					
Diesel Range Organics	ND	25	NWTPH-Dx	8-25-16	8-25-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-25-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-276-01							
	ORIG	DUP						
Diesel Range Organics	31.8	ND	NA	NA	NA	NA	NA	NA
Lube Oil	125	106	NA	NA	NA	NA	16	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				83	72	50-150		



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0830W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: August 31, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-232
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.39	10.2	10.0	10.0	94	102	62-132	8	20	
Benzene	9.59	10.6	10.0	10.0	96	106	75-121	10	15	
Trichloroethene	9.04	9.06	10.0	10.0	90	91	65-115	0	15	
Toluene	10.2	10.4	10.0	10.0	102	104	78-120	2	15	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	77-118	2	15	
<i>Surrogate:</i>										
Dibromofluoromethane					92	102	71-131			
Toluene-d8					97	99	80-127			
4-Bromofluorobenzene					91	93	80-125			



Date of Report: August 31, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-232
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-19-16

Client ID	Lab ID	% Moisture
A9-MW1D-0-1	08-232-01	5
A9-MW1D-4-5	08-232-02	8
A9-MW1D-7-8	08-232-03	10
A9-MW1D-9-10	08-232-04	10
A9-MW1D-14-15	08-232-05	10
A9-MW1D-19-20	08-232-06	13
A9-MW1D-24-25	08-232-07	9
A9-MW1D-30-31	08-232-08	12
A9-MW1D-36-36.5	08-232-09	12
A9-MW1D-38-39	08-232-10	19
A9-MW1D-42-43	08-232-11	19
A9-MW1D-49-50	08-232-12	20
A9-MW1D-59-60	08-232-13	19
A9-MW1D-69-70	08-232-14	23



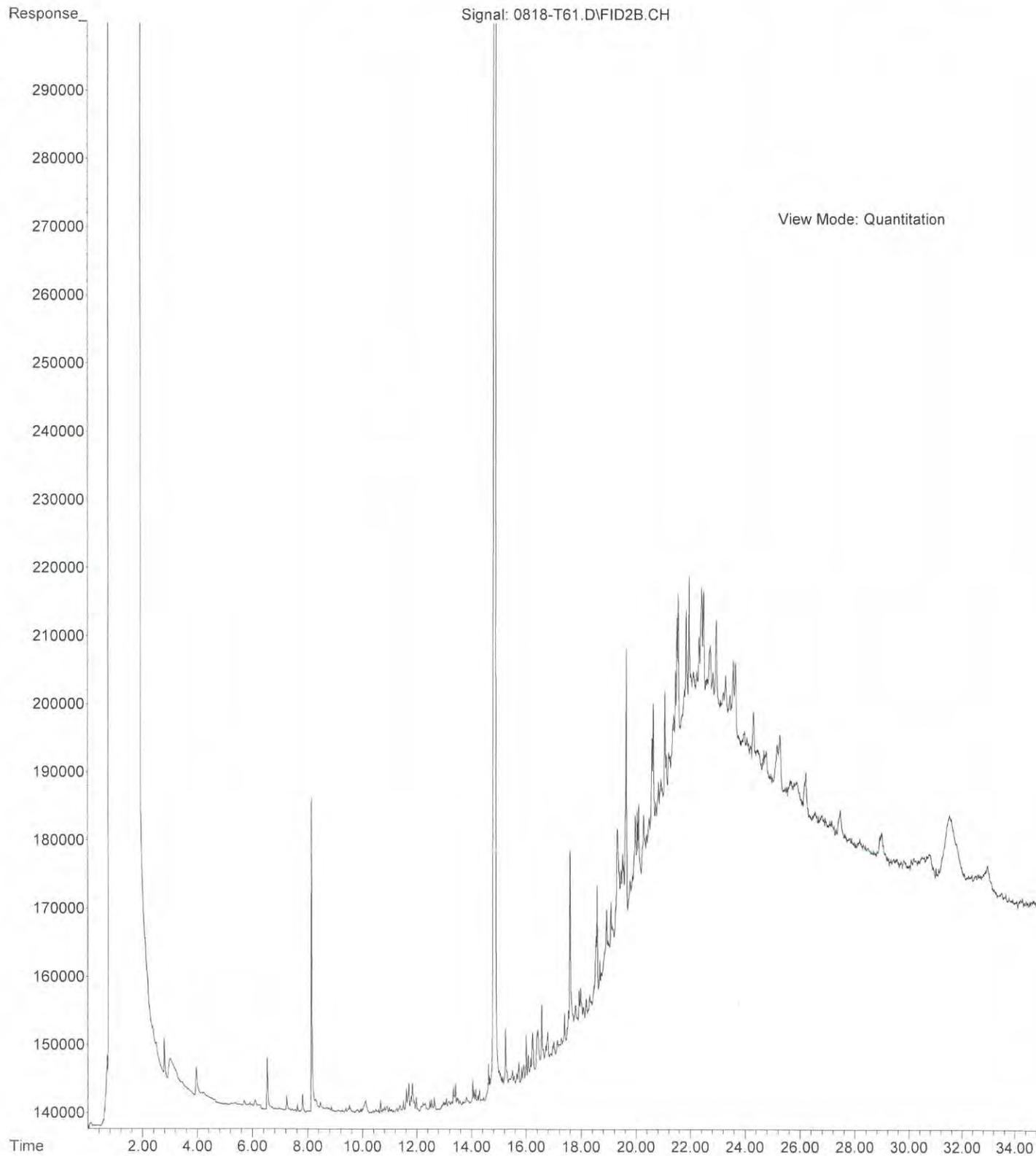


Data Qualifiers and Abbreviations

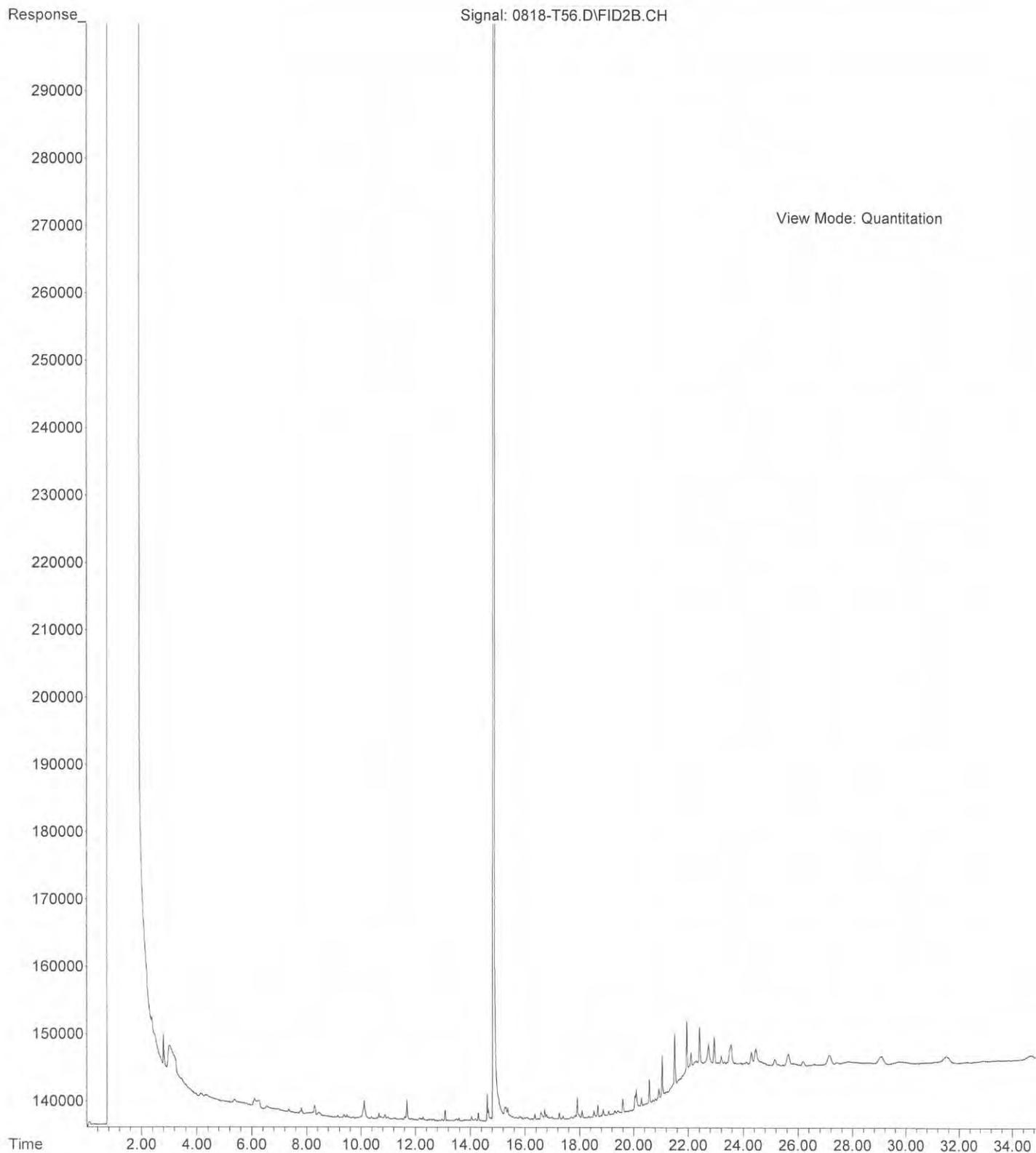
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



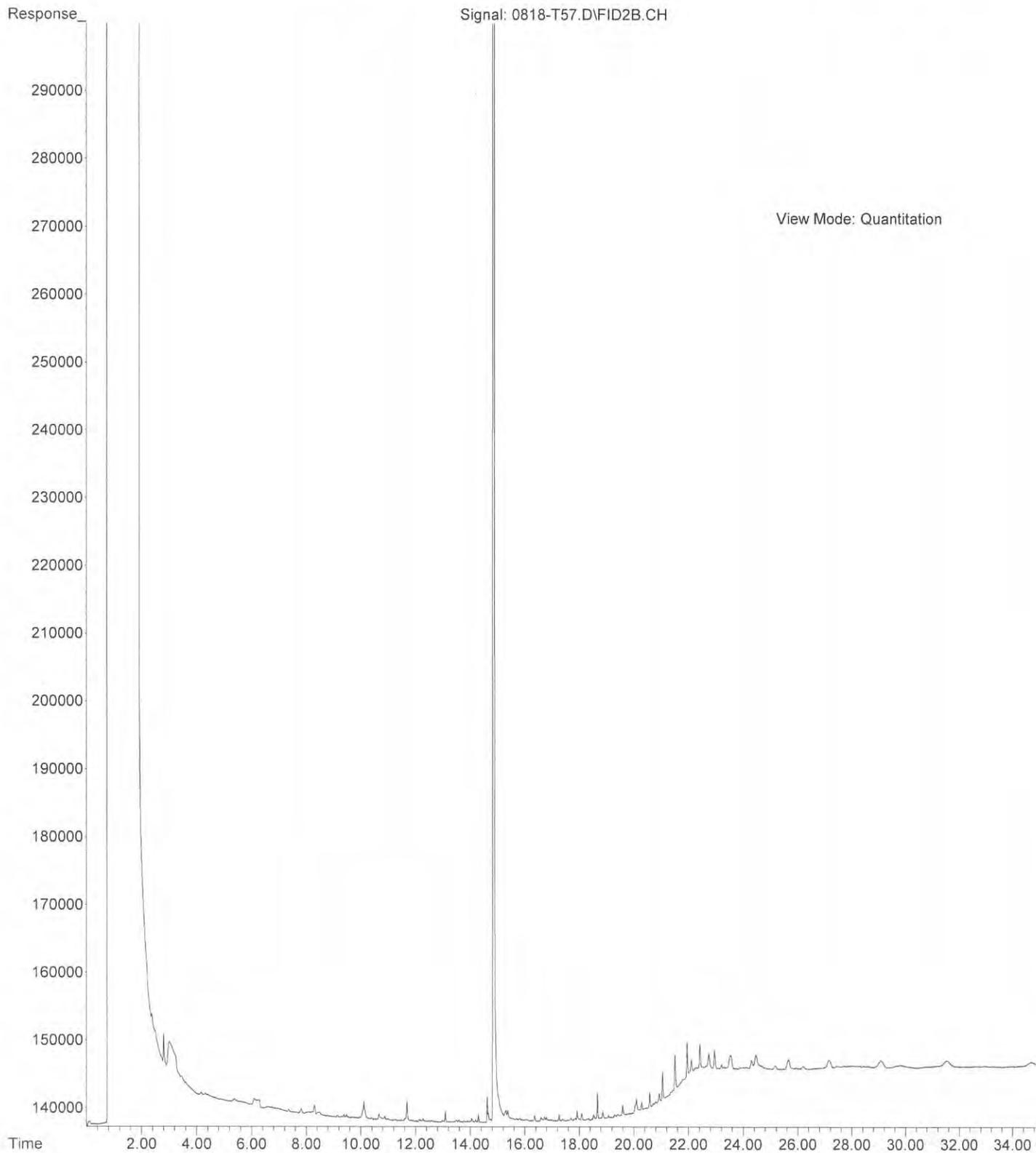
File : X:\DIESELS\TERI\DATA\T160818.SEC\0818-T61.D
Operator : ZT
Acquired : 18 Aug 2016 19:34 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-232-01 HC
Misc Info :
Vial Number: 61



File : X:\DIESELS\TERI\DATA\T160818.SEC\0818-T56.D
Operator : ZT
Acquired : 18 Aug 2016 15:55 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-232-02 HC
Misc Info :
Vial Number: 56



File :X:\DIESELS\TERI\DATA\T160818.SEC\0818-T57.D
Operator : ZT
Acquired : 18 Aug 2016 16:40 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-232-03 HC
Misc Info :
Vial Number: 57





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 25, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-233

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 17, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 17, 2016 and received by the laboratory on August 17, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A9-MW1S-1-2	08-233-01	Soil	8-17-16	8-17-16	
A9-MW1S-4-5	08-233-02	Soil	8-17-16	8-17-16	
A9-MW1S-9-10	08-233-03	Soil	8-17-16	8-17-16	



Date of Report: August 25, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-233
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1S-1-2					
Laboratory ID:	08-233-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				
Client ID:	A9-MW1S-4-5					
Laboratory ID:	08-233-02					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				
Client ID:	A9-MW1S-9-10					
Laboratory ID:	08-233-03					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				



Date of Report: August 25, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-233
 Project: 0183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1S-1-2					
Laboratory ID:	08-233-01					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Pyrene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	8-19-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>89</i>	<i>30 - 117</i>				



Date of Report: August 25, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-233
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-233-01					
Client ID:	A9-MW1S-1-2					
Arsenic	ND	11	6010C	8-19-16	8-19-16	
Barium	48	2.7	6010C	8-19-16	8-19-16	
Cadmium	ND	0.54	6010C	8-19-16	8-19-16	
Chromium	67	0.54	6010C	8-19-16	8-19-16	
Lead	ND	5.4	6010C	8-19-16	8-19-16	
Mercury	ND	0.27	7471B	8-18-16	8-18-16	
Selenium	ND	11	6010C	8-19-16	8-19-16	
Silver	ND	1.1	6010C	8-19-16	8-19-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S2					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-18-16	8-18-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-18-16	8-18-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-18-16	8-18-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>84</i>	<i>50-150</i>				



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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0819S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-19-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>85</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>98</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>105</i>	<i>30 - 117</i>				



Date of Report: August 25, 2016
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PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0819S1									
Naphthalene	0.0750	0.0778	0.0833	0.0833	90	93	61 - 112	4	15	
Acenaphthylene	0.0675	0.0580	0.0833	0.0833	81	70	65 - 116	15	15	
Acenaphthene	0.0752	0.0811	0.0833	0.0833	90	97	62 - 116	8	13	
Fluorene	0.0803	0.0725	0.0833	0.0833	96	87	60 - 115	10	15	
Phenanthrene	0.0710	0.0669	0.0833	0.0833	85	80	54 - 114	6	15	
Anthracene	0.0896	0.0834	0.0833	0.0833	108	100	70 - 140	7	15	
Fluoranthene	0.0854	0.0862	0.0833	0.0833	103	103	60 - 118	1	15	
Pyrene	0.0807	0.0818	0.0833	0.0833	97	98	65 - 115	1	15	
Benzo[a]anthracene	0.0649	0.0633	0.0833	0.0833	78	76	59 - 129	2	15	
Chrysene	0.0888	0.0922	0.0833	0.0833	107	111	60 - 122	4	15	
Benzo[b]fluoranthene	0.0747	0.0732	0.0833	0.0833	90	88	53 - 124	2	17	
Benzo(j,k)fluoranthene	0.0898	0.0952	0.0833	0.0833	108	114	58 - 124	6	16	
Benzo[a]pyrene	0.0888	0.0899	0.0833	0.0833	107	108	62 - 127	1	15	
Indeno(1,2,3-c,d)pyrene	0.0857	0.0878	0.0833	0.0833	103	105	60 - 120	2	15	
Dibenz[a,h]anthracene	0.0914	0.0941	0.0833	0.0833	110	113	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0774	0.0815	0.0833	0.0833	93	98	63 - 117	5	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					82	69	32 - 115			
Pyrene-d10					92	93	30 - 124			
Terphenyl-d14					96	99	30 - 117			



Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-19-16
Date Analyzed: 8-19-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0819SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-18-16
Date Analyzed: 8-18-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0818S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: August 25, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-233
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**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-19-16

Date Analyzed: 8-19-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-244-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	31.1	31.9	3	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	26.6	28.2	6	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-18-16

Date Analyzed: 8-18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: August 25, 2016
 Samples Submitted: August 17, 2016
 Laboratory Reference: 1608-233
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-19-16

Date Analyzed: 8-19-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-244-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	91.2	91	94.2	94	3	
Barium	100	130	99	133	102	2	
Cadmium	50.0	44.7	89	45.3	91	1	
Chromium	100	114	87	122	95	7	
Lead	250	218	87	222	89	2	
Selenium	100	91.1	91	89.2	89	2	
Silver	25.0	20.5	82	20.8	83	2	



Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-18-16

Date Analyzed: 8-18-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-053-06

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.467	93	0.571	114	20	



Date of Report: August 25, 2016
Samples Submitted: August 17, 2016
Laboratory Reference: 1608-233
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-19-16

Client ID	Lab ID	% Moisture
A9-MW1S-1-2	08-233-01	7
A9-MW1S-4-5	08-233-02	8
A9-MW1S-9-10	08-233-03	8



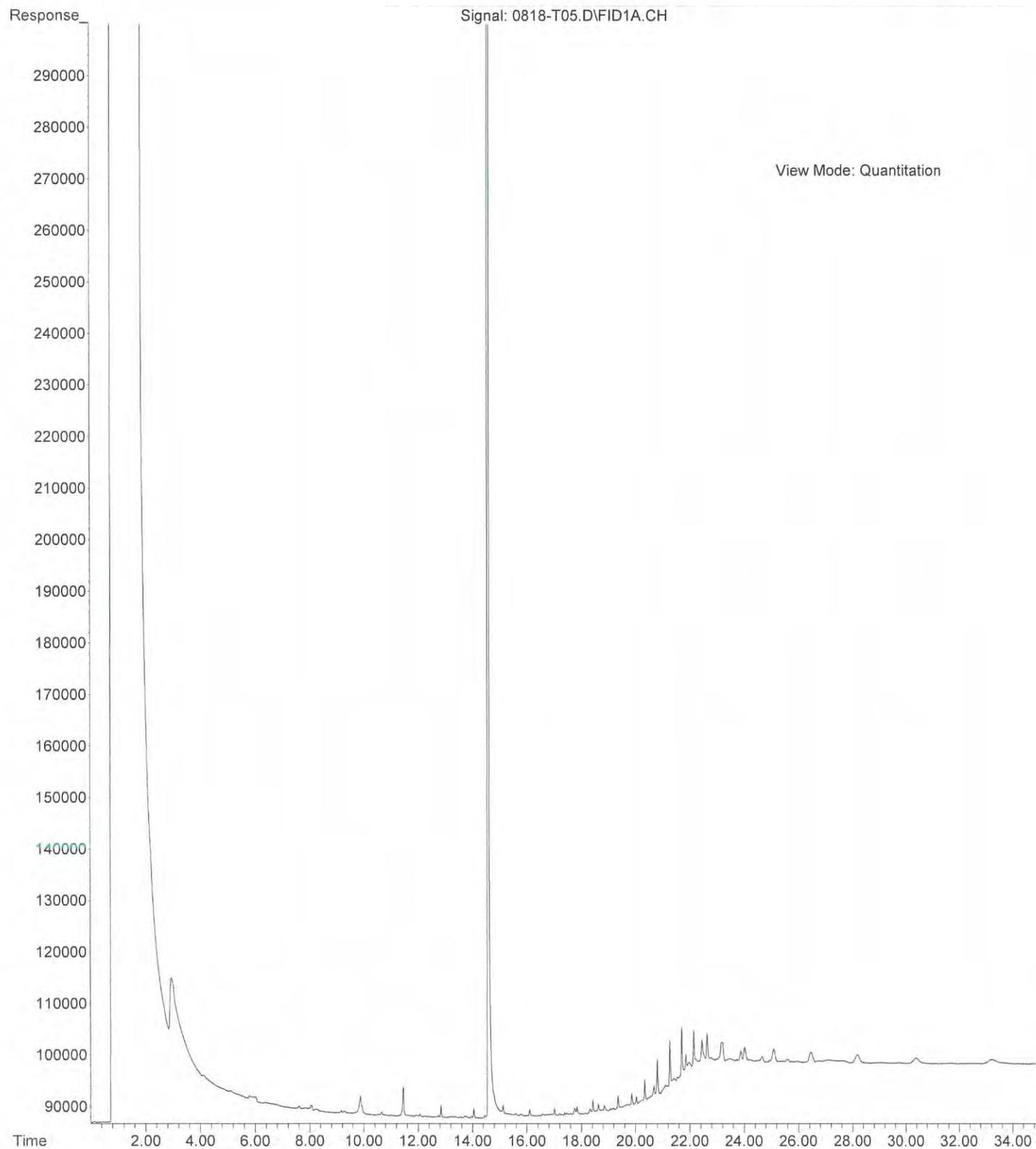


Data Qualifiers and Abbreviations

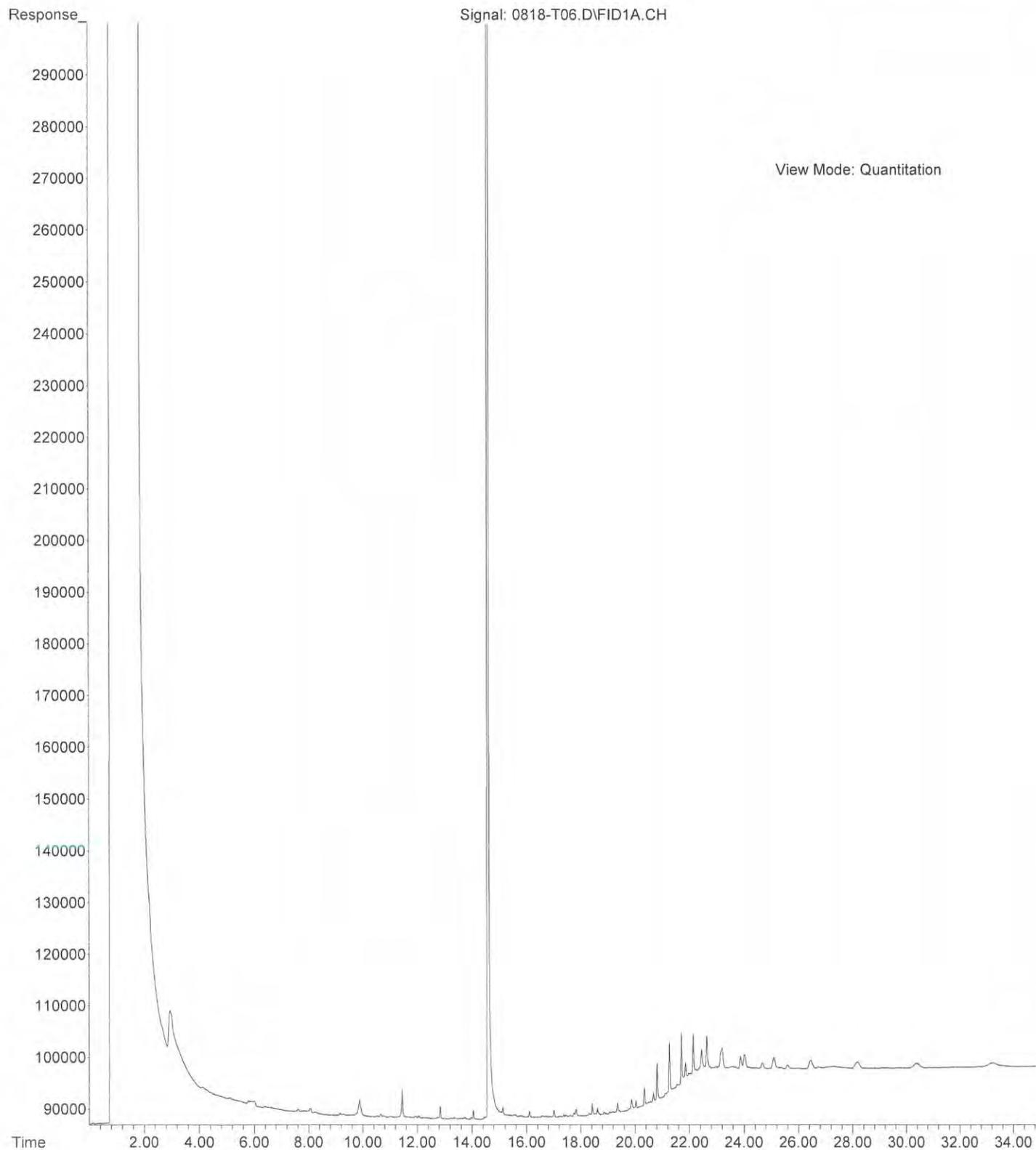
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



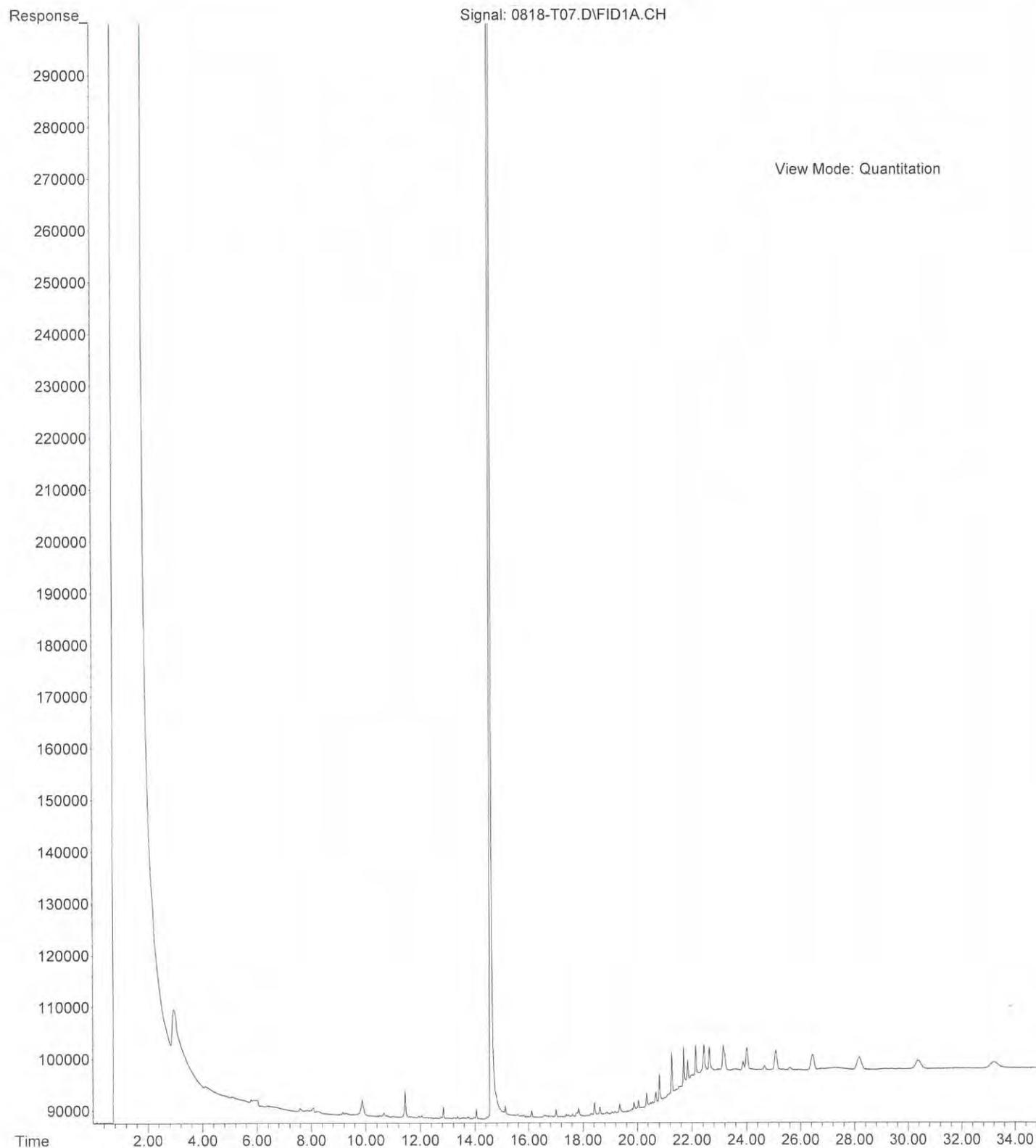
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Operator : ZT
Acquired : 18 Aug 2016 15:12 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-233-01 HC
Misc Info :
Vial Number: 5



File :X:\DIESELS\TERI\DATA\T160818\0818-T06.D
Operator : ZT
Acquired : 18 Aug 2016 15:55 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-233-02 HC
Misc Info :
Vial Number: 6



File :X:\DIESELS\TERI\DATA\T160818\0818-T07.D
Operator : ZT
Acquired : 18 Aug 2016 16:40 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-233-03 HC
Misc Info :
Vial Number: 7





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 1, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-265

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 19, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 1, 2016
Samples Submitted: August 19, 2016
Laboratory Reference: 1608-265
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 18, 2016 and received by the laboratory on August 19, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

All four internal standards did not meet acceptance criteria for sample A6-MW2D-54-55. The sample was re-analyzed with similar results. Leaks within the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. As per Method 5035A requirements, the purge-and-trap system utilized for low-level analysis at OnSite Environmental Inc. has a stir motor that spins a magnetic stir bar within the VOA thereby agitating the sample and providing more efficient purging. However, since both VOA vials containing stir bars were consumed, the sample was analyzed a third time for low-level analysis using a non-stir VOA. All four internal standards met acceptance criteria from the third analysis; therefore that data was used for the report.

Total Metals EPA 6010C/7471B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for mercury are outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 100%.

The Matrix Spike/Matrix Spike Duplicate RPD for mercury is outside control limits due to matrix effects. The samples were re-extracted and re-analyzed with similar results.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW2D-0-1	08-265-01	Soil	8-18-16	8-19-16	
A6-MW2D-2-3	08-265-03	Soil	8-18-16	8-19-16	
DUP1-20160818	08-265-04	Soil	8-18-16	8-19-16	
A6-MW2D-6-7	08-265-08	Soil	8-18-16	8-19-16	
A6-MW2D-7-8	08-265-09	Soil	8-18-16	8-19-16	
A6-MW2D-8-9	08-265-10	Soil	8-18-16	8-19-16	
A6-MW2D-14-15	08-265-11	Soil	8-18-16	8-19-16	
A6-MW2D-20-21	08-265-13	Soil	8-18-16	8-19-16	
A6-MW2D-24-25	08-265-14	Soil	8-18-16	8-19-16	
A6-MW2D-29-30	08-265-15	Soil	8-18-16	8-19-16	
A6-MW2D-30-31	08-265-16	Soil	8-18-16	8-19-16	
A6-MW2D-34-35	08-265-17	Soil	8-18-16	8-19-16	
A6-MW2D-39-40	08-265-18	Soil	8-18-16	8-19-16	
A6-MW2D-42.5-43.5	08-265-19	Soil	8-18-16	8-19-16	
A6-MW2D-44-45	08-265-20	Soil	8-18-16	8-19-16	
A6-MW2D-45-46	08-265-21	Soil	8-18-16	8-19-16	
TB-20160818	08-265-22	Water	8-18-16	8-19-16	
A6-MW2D-49-50	08-265-23	Soil	8-18-16	8-19-16	
A6-MW2D-54-55	08-265-24	Soil	8-18-16	8-19-16	
A6-MW2D-59-60	08-265-25	Soil	8-18-16	8-19-16	
RIN-20160818	08-265-26	Water	8-18-16	8-19-16	



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-0-1					
Laboratory ID:	08-265-01					
Gasoline Range Organics	ND	21	NWTPH-HCID	8-24-16	8-24-16	
Diesel Range Organics	ND	53	NWTPH-HCID	8-24-16	8-24-16	
Lube Oil	Detected	110	NWTPH-HCID	8-24-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-0-1					
Laboratory ID:	08-265-01					
Diesel Range Organics	ND	86	NWTPH-Dx	8-31-16	8-31-16	U1
Lube Oil	1400	53	NWTPH-Dx	8-31-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-2-3					
Laboratory ID:	08-265-03					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0071	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0064	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0048	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0097	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-2-3					
Laboratory ID:	08-265-03					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160818					
Laboratory ID:	08-265-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0079	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0072	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0054	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160818					
Laboratory ID:	08-265-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-6-7					
Laboratory ID:	08-265-08					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0070	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0048	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0095	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-6-7					
Laboratory ID:	08-265-08					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	76-131				
<i>Toluene-d8</i>	93	80-126				
<i>4-Bromofluorobenzene</i>	115	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-7-8					
Laboratory ID:	08-265-09					
Dichlorodifluoromethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0064	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0058	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0044	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0088	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-7-8					
Laboratory ID:	08-265-09					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-8-9					
Laboratory ID:	08-265-10					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0081	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0073	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0055	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0015	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-8-9					
Laboratory ID:	08-265-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-14-15					
Laboratory ID:	08-265-11					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0083	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0015	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0075	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0057	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0015	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	0.0023	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0016	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0075	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-14-15					
Laboratory ID:	08-265-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	76-131				
<i>Toluene-d8</i>	93	80-126				
<i>4-Bromofluorobenzene</i>	114	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-20-21					
Laboratory ID:	08-265-13					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0066	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0059	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0045	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0090	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	0.0015	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-20-21					
Laboratory ID:	08-265-13					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-24-25					
Laboratory ID:	08-265-14					
Dichlorodifluoromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0066	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0060	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0045	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0090	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	0.0037	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-24-25					
Laboratory ID:	08-265-14					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	76-131				
<i>Toluene-d8</i>	93	80-126				
<i>4-Bromofluorobenzene</i>	113	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-29-30					
Laboratory ID:	08-265-15					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0069	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0093	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	0.0012	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-29-30					
Laboratory ID:	08-265-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>80</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-30-31					
Laboratory ID:	08-265-16					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0069	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0047	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0095	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	0.0056	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-30-31					
Laboratory ID:	08-265-16					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	76-131				
<i>Toluene-d8</i>	93	80-126				
<i>4-Bromofluorobenzene</i>	112	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-34-35					
Laboratory ID:	08-265-17					
Dichlorodifluoromethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0057	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0043	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-34-35					
Laboratory ID:	08-265-17					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>81</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-39-40					
Laboratory ID:	08-265-18					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0069	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0047	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0095	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-39-40					
Laboratory ID:	08-265-18					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	85	76-131				
<i>Toluene-d8</i>	95	80-126				
<i>4-Bromofluorobenzene</i>	112	60-146				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-42.5-43.5					
Laboratory ID:	08-265-19					
Dichlorodifluoromethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0067	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0061	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0046	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0092	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-42.5-43.5					
Laboratory ID:	08-265-19					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-44-45					
Laboratory ID:	08-265-20					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0075	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0067	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0051	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.010	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-44-45					
Laboratory ID:	08-265-20					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-45-46					
Laboratory ID:	08-265-21					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0051	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0046	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0035	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.0069	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.00090	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-45-46					
Laboratory ID:	08-265-21					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-49-50					
Laboratory ID:	08-265-23					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0095	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0017	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0085	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0065	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.013	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0017	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0018	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0085	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-49-50					
Laboratory ID:	08-265-23					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0065	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0065	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>83</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-54-55					
Laboratory ID:	08-265-24					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0042	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0042	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0073	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-54-55					
Laboratory ID:	08-265-24					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>113</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-59-60					
Laboratory ID:	08-265-25					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0090	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0016	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0081	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0062	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.012	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0016	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0016	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0017	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-59-60					
Laboratory ID:	08-265-25					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	83	76-131				
<i>Toluene-d8</i>	96	80-126				
<i>4-Bromofluorobenzene</i>	111	60-146				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RIN-20160818					
Laboratory ID:	08-265-26					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	1.0	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	1.0	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	1.3	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	2.0	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	1.5	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-16	8-23-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RIN-20160818					
Laboratory ID:	08-265-26					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	1.0	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-0-1					
Laboratory ID:	08-265-01					
Naphthalene	0.0092	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
2-Methylnaphthalene	0.0081	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
1-Methylnaphthalene	ND	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Acenaphthylene	0.0076	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Acenaphthene	ND	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Fluorene	ND	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Phenanthrene	0.026	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Anthracene	ND	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Fluoranthene	0.041	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Pyrene	0.051	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Benzo[a]anthracene	0.025	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Chrysene	0.044	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Benzo[b]fluoranthene	0.048	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Benzo(j,k)fluoranthene	0.011	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Benzo[a]pyrene	0.033	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Indeno(1,2,3-c,d)pyrene	0.016	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Dibenz[a,h]anthracene	ND	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
Benzo[g,h,i]perylene	0.026	0.0070	EPA 8270D/SIM	8-22-16	8-25-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>86</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>116</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-265-01					
Client ID:	A6-MW2D-0-1					
Arsenic	ND	11	6010C	8-24-16	8-25-16	
Barium	120	2.6	6010C	8-24-16	8-25-16	
Cadmium	2.3	0.53	6010C	8-24-16	8-25-16	
Chromium	41	0.53	6010C	8-24-16	8-25-16	
Lead	320	5.3	6010C	8-24-16	8-25-16	
Mercury	ND	0.26	7471B	8-22-16	8-22-16	
Selenium	ND	11	6010C	8-24-16	8-25-16	
Silver	ND	1.1	6010C	8-24-16	8-25-16	



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160818					
Laboratory ID:	08-265-22					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160818					
Laboratory ID:	08-265-22					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>80-125</i>				



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-24-16	8-24-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-24-16	8-24-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-24-16	8-24-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>77</i>	<i>50-150</i>				



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-31-16	8-31-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-31-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	128	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-265-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1
Lube Oil	1290	356	NA	NA	NA	113	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			98	100	50-150			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0822S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloromethane	ND	0.0073	EPA 8260C	8-22-16	8-22-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
Bromomethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloroethane	ND	0.0066	EPA 8260C	8-22-16	8-22-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Iodomethane	ND	0.0050	EPA 8260C	8-22-16	8-22-16	
Methylene Chloride	ND	0.010	EPA 8260C	8-22-16	8-22-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-22-16	8-22-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chloroform	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-22-16	8-22-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	8-22-16	8-22-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0822S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromoform	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-22-16	8-22-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-22-16	8-22-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-22-16	8-22-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	0.0064	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	0.0086	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0823S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>Dibromofluoromethane</i>	<i>84</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0822S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0399	0.0416	0.0500	0.0500	80	83	68-126	4	15	
Benzene	0.0379	0.0374	0.0500	0.0500	76	75	70-121	1	15	
Trichloroethene	0.0443	0.0471	0.0500	0.0500	89	94	75-120	6	15	
Toluene	0.0439	0.0462	0.0500	0.0500	88	92	80-120	5	15	
Chlorobenzene	0.0455	0.0464	0.0500	0.0500	91	93	76-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>91</i>	<i>81</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>96</i>	<i>91</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>117</i>	<i>111</i>	<i>60-146</i>			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0823S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0398	0.0404	0.0500	0.0500	80	81	68-126	1	15	
Benzene	0.0360	0.0364	0.0500	0.0500	72	73	70-121	1	15	
Trichloroethene	0.0454	0.0466	0.0500	0.0500	91	93	75-120	3	15	
Toluene	0.0445	0.0446	0.0500	0.0500	89	89	80-120	0	15	
Chlorobenzene	0.0449	0.0471	0.0500	0.0500	90	94	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					78	77	76-131			
<i>Toluene-d8</i>					84	86	80-126			
<i>4-Bromofluorobenzene</i>					103	110	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chloromethane	ND	1.0	EPA 8260C	8-23-16	8-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromomethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chloroethane	ND	1.0	EPA 8260C	8-23-16	8-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Iodomethane	ND	1.3	EPA 8260C	8-23-16	8-23-16	
Methylene Chloride	ND	2.0	EPA 8260C	8-23-16	8-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chloroform	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Trichloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Dibromomethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
2-Chloroethyl Vinyl Ether	ND	1.5	EPA 8260C	8-23-16	8-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-23-16	8-23-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0823W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Bromoform	ND	1.0	EPA 8260C	8-23-16	8-23-16	
Bromobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichloropropane	ND	0.25	EPA 8260C	8-23-16	8-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-23-16	8-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-23-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>123</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB0823W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	9.10	10.0	10.0	101	91	62-132	10	20	
Benzene	10.0	9.58	10.0	10.0	100	96	75-121	4	15	
Trichloroethene	8.67	8.30	10.0	10.0	87	83	65-115	4	15	
Toluene	10.2	9.74	10.0	10.0	102	97	78-120	5	15	
Chlorobenzene	9.27	8.92	10.0	10.0	93	89	77-118	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					115	117	71-131			
Toluene-d8					104	106	80-127			
4-Bromofluorobenzene					92	95	80-125			



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 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0822S3						
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-22-16	8-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>75</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>90</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>102</i>	<i>30 - 117</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0822S3									
Naphthalene	0.0752	0.0703	0.0833	0.0833	90	84	61 - 112	7	15	
Acenaphthylene	0.0886	0.0796	0.0833	0.0833	106	96	65 - 116	11	15	
Acenaphthene	0.0819	0.0737	0.0833	0.0833	98	88	62 - 116	11	13	
Fluorene	0.0807	0.0786	0.0833	0.0833	97	94	60 - 115	3	15	
Phenanthrene	0.0756	0.0754	0.0833	0.0833	91	91	54 - 114	0	15	
Anthracene	0.0937	0.0935	0.0833	0.0833	112	112	70 - 140	0	15	
Fluoranthene	0.0825	0.0843	0.0833	0.0833	99	101	60 - 118	2	15	
Pyrene	0.0813	0.0838	0.0833	0.0833	98	101	65 - 115	3	15	
Benzo[a]anthracene	0.0923	0.0946	0.0833	0.0833	111	114	59 - 129	2	15	
Chrysene	0.0776	0.0809	0.0833	0.0833	93	97	60 - 122	4	15	
Benzo[b]fluoranthene	0.0818	0.0849	0.0833	0.0833	98	102	53 - 124	4	17	
Benzo(j,k)fluoranthene	0.0837	0.0873	0.0833	0.0833	100	105	58 - 124	4	16	
Benzo[a]pyrene	0.0932	0.0959	0.0833	0.0833	112	115	62 - 127	3	15	
Indeno(1,2,3-c,d)pyrene	0.0880	0.0912	0.0833	0.0833	106	109	60 - 120	4	15	
Dibenz[a,h]anthracene	0.0890	0.0914	0.0833	0.0833	107	110	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0841	0.0874	0.0833	0.0833	101	105	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					82	74	32 - 115			
Pyrene-d10					90	92	30 - 124			
Terphenyl-d14					100	102	30 - 117			



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-24-16
 Date Analyzed: 8-25-16
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0824SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: September 1, 2016
Samples Submitted: August 19, 2016
Laboratory Reference: 1608-265
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-22-16
Date Analyzed: 8-22-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0822S2

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-24-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-268-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	40.5	38.9	4	10	
Barium	132	126	5	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	11.8	11.7	0	0.50	
Lead	269	257	4	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 1, 2016
Samples Submitted: August 19, 2016
Laboratory Reference: 1608-265
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-22-16

Date Analyzed: 8-22-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-265-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-24-16

Date Analyzed: 8-25-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-268-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	119	78	117	76	2	
Barium	100	230	98	217	86	6	
Cadmium	50.0	46.3	93	46.2	92	0	
Chromium	100	101	90	101	90	0	
Lead	250	467	79	476	83	2	
Selenium	100	80.1	80	79.2	79	1	
Silver	25.0	21.8	87	21.9	88	1	



Date of Report: September 1, 2016
Samples Submitted: August 19, 2016
Laboratory Reference: 1608-265
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-22-16

Date Analyzed: 8-22-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-265-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.356	71	0.441	88	21	V,W



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: September 1, 2016
 Samples Submitted: August 19, 2016
 Laboratory Reference: 1608-265
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.39	10.2	10.0	10.0	94	102	62-132	8	20	
Benzene	9.59	10.6	10.0	10.0	96	106	75-121	10	15	
Trichloroethene	9.04	9.06	10.0	10.0	90	91	65-115	0	15	
Toluene	10.2	10.4	10.0	10.0	102	104	78-120	2	15	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	102	71-131			
<i>Toluene-d8</i>					97	99	80-127			
<i>4-Bromofluorobenzene</i>					91	93	80-125			



Date of Report: September 1, 2016
Samples Submitted: August 19, 2016
Laboratory Reference: 1608-265
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-22-16

Client ID	Lab ID	% Moisture
A6-MW2D-0-1	08-265-01	5
A6-MW2D-2-3	08-265-03	8
DUP1-20160818	08-265-04	10
A6-MW2D-6-7	08-265-08	8
A6-MW2D-7-8	08-265-09	9
A6-MW2D-8-9	08-265-10	9
A6-MW2D-14-15	08-265-11	12
A6-MW2D-20-21	08-265-13	10
A6-MW2D-24-25	08-265-14	11
A6-MW2D-29-30	08-265-15	13
A6-MW2D-30-31	08-265-16	16
A6-MW2D-34-35	08-265-17	11
A6-MW2D-39-40	08-265-18	10
A6-MW2D-42.5-43.5	08-265-19	8
A6-MW2D-44-45	08-265-20	7
A6-MW2D-45-46	08-265-21	9
A6-MW2D-49-50	08-265-23	12
A6-MW2D-54-55	08-265-24	10
A6-MW2D-59-60	08-265-25	14





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.

Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: **Geo Engineers**

Project Number: **0183-109-01 T500**

Project Name: **UWT-2016-R1**

Project Manager: **Fricia DeDome**

Sampled by: **Jed/RC**

Turnaround Request (in working days)

(Check One)

- Same Day
- 1 Day
- 2 Days
- 3 Days
- Standard (7 Days)
(TPH analysis 5 Days)
- _____ (other)

Lab ID

Date Sampled: **8/18/16**

Time Sampled: **0940**

Matrix: **S**

Number of Containers: **4**

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx (Acid / SG Clean-up)

Volatiles 8260C

Halogenated Volatiles 8260C

EDB EPA 8011 (Waters Only)

Semivolatiles 8270D/SIM (with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

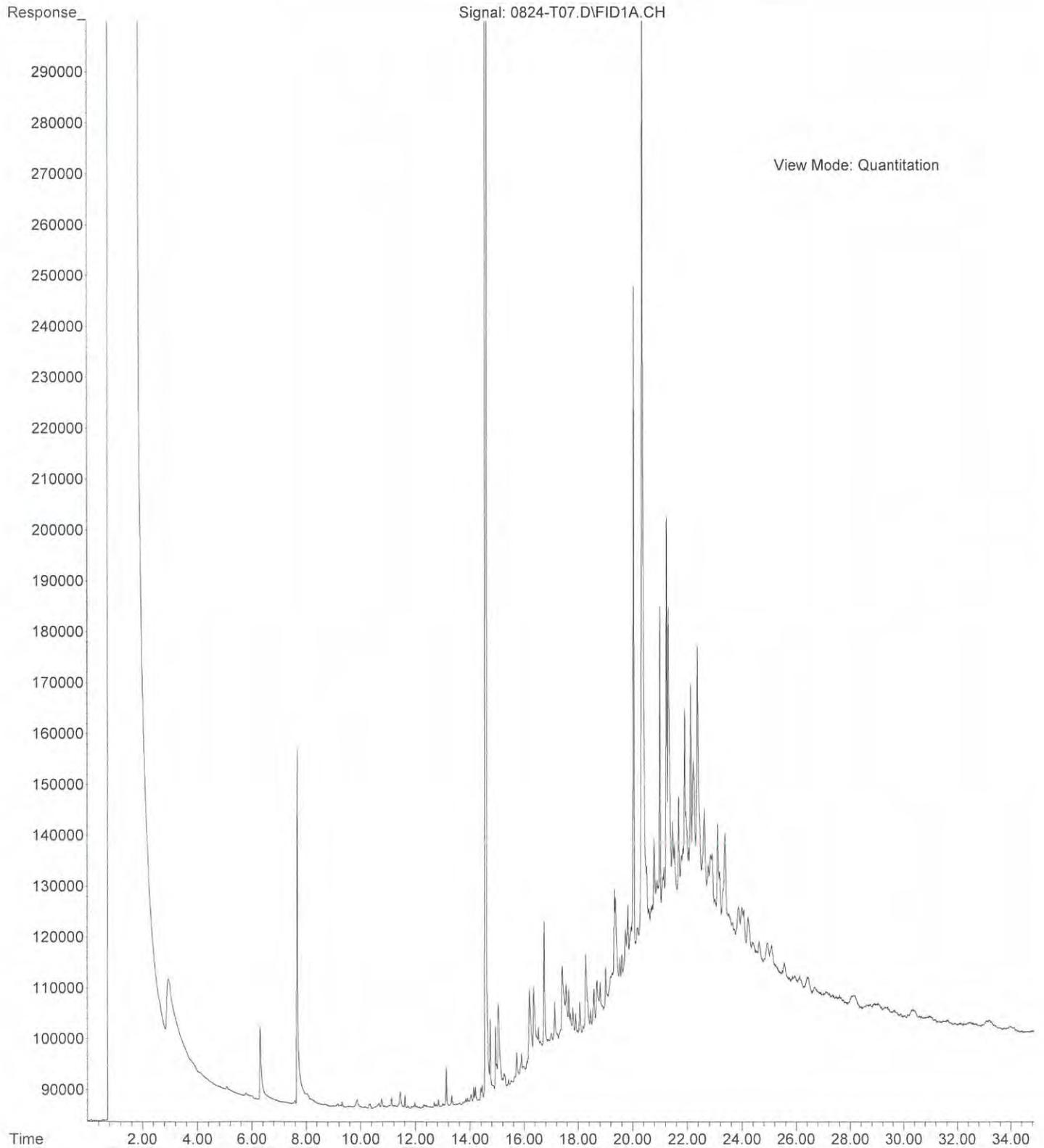
% Moisture

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
11	A6-MW2D-14-15	8/18/16	0940	S	4					X														
12	A6-MW2D-15-16		0945		1																			
13	A6-MW2D-20-21		0950		1					X														
14	A6-MW2D-24-25		0955		1					X														
15	A6-MW2D-29-30		1000		1					X														
16	A6-MW2D-30-31		1005		1					X														
17	A6-MW2D-34-35		1010		1					X														
18	A6-MW2D-39-40		1015		1					X														
19	A6-MW2D-42.5-43.5		1020		1					X														
20	A6-MW2D-44-45		1030		1					X														

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>[Signature]</i>	GEI	8/15/16	0830	
Received	<i>[Signature]</i>	SPEEDY	8/19/16	9:30A	
Relinquished	<i>[Signature]</i>	SPEEDY	8-19-16	11:05A	
Received	<i>[Signature]</i>	DEE	8/19/16	1105	
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)

File :X:\DIESELS\TERI\DATA\T160824\0824-T07.D
Operator : ZT
Acquired : 24 Aug 2016 15:24 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-265-01 HC
Misc Info :
Vial Number: 7





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 2, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-282

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 22, 2016 and received by the laboratory on August 23, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW2S-0-1	08-282-01	Soil	8-22-16	8-23-16	
Dup1-20160822	08-282-02	Soil	8-22-16	8-23-16	
A6-MW2S-1-2	08-282-03	Soil	8-22-16	8-23-16	
A6-MW2S-6-7	08-282-08	Soil	8-22-16	8-23-16	



Date of Report: September 2, 2016
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 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-0-1					
Laboratory ID:	08-282-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	116	50-150				

Client ID:	A6-MW2S-1-2					
Laboratory ID:	08-282-03					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	113	50-150				

Client ID:	A6-MW2S-6-7					
Laboratory ID:	08-282-08					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	55	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-0-1					
Laboratory ID:	08-282-01					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	63	32 - 115				
<i>Pyrene-d10</i>	73	30 - 124				
<i>Terphenyl-d14</i>	85	30 - 117				



Date of Report: September 2, 2016
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 Project: 0183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-1-2					
Laboratory ID:	08-282-03					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>72</i>	<i>30 - 117</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-6-7					
Laboratory ID:	08-282-08					
Naphthalene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>69</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>73</i>	<i>30 - 117</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-282-01					
Client ID:	A6-MW2S-0-1					
Arsenic	ND	11	6010C	8-29-16	8-29-16	
Barium	86	2.7	6010C	8-29-16	8-29-16	
Cadmium	ND	0.54	6010C	8-29-16	8-29-16	
Chromium	46	0.54	6010C	8-29-16	8-29-16	
Lead	9.9	5.4	6010C	8-29-16	8-29-16	
Mercury	ND	0.27	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-29-16	8-29-16	
Silver	ND	1.1	6010C	8-29-16	8-29-16	

Lab ID:	08-282-02					
Client ID:	Dup1-20160822					
Arsenic	ND	11	6010C	8-29-16	8-29-16	
Barium	110	2.7	6010C	8-29-16	8-29-16	
Cadmium	ND	0.53	6010C	8-29-16	8-29-16	
Chromium	64	0.53	6010C	8-29-16	8-29-16	
Lead	44	5.3	6010C	8-29-16	8-29-16	
Mercury	ND	0.27	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-29-16	8-29-16	
Silver	ND	1.1	6010C	8-29-16	8-29-16	



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-282-03					
Client ID:	A6-MW2S-1-2					
Arsenic	ND	11	6010C	8-29-16	8-29-16	
Barium	77	2.7	6010C	8-29-16	8-29-16	
Cadmium	ND	0.54	6010C	8-29-16	8-29-16	
Chromium	48	0.54	6010C	8-29-16	8-29-16	
Lead	ND	5.4	6010C	8-29-16	8-29-16	
Mercury	ND	0.27	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-29-16	8-29-16	
Silver	ND	1.1	6010C	8-29-16	8-29-16	

Lab ID:	08-282-08					
Client ID:	A6-MW2S-6-7					
Arsenic	ND	11	6010C	8-29-16	8-29-16	
Barium	54	2.7	6010C	8-29-16	8-29-16	
Cadmium	ND	0.55	6010C	8-29-16	8-29-16	
Chromium	38	0.55	6010C	8-29-16	8-29-16	
Lead	ND	5.5	6010C	8-29-16	8-29-16	
Mercury	ND	0.27	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-29-16	8-29-16	
Silver	ND	1.1	6010C	8-29-16	8-29-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
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 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>30 - 117</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0826S1									
Naphthalene	0.0713	0.0733	0.0833	0.0833	86	88	61 - 112	3	15	
Acenaphthylene	0.0674	0.0682	0.0833	0.0833	81	82	65 - 116	1	15	
Acenaphthene	0.0659	0.0652	0.0833	0.0833	79	78	62 - 116	1	13	
Fluorene	0.0732	0.0737	0.0833	0.0833	88	88	60 - 115	1	15	
Phenanthrene	0.0676	0.0682	0.0833	0.0833	81	82	54 - 114	1	15	
Anthracene	0.0830	0.0849	0.0833	0.0833	100	102	70 - 140	2	15	
Fluoranthene	0.0728	0.0745	0.0833	0.0833	87	89	60 - 118	2	15	
Pyrene	0.0737	0.0756	0.0833	0.0833	88	91	65 - 115	3	15	
Benzo[a]anthracene	0.0690	0.0728	0.0833	0.0833	83	87	59 - 129	5	15	
Chrysene	0.0740	0.0737	0.0833	0.0833	89	88	60 - 122	0	15	
Benzo[b]fluoranthene	0.0638	0.0620	0.0833	0.0833	77	74	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0677	0.0743	0.0833	0.0833	81	89	58 - 124	9	16	
Benzo[a]pyrene	0.0693	0.0710	0.0833	0.0833	83	85	62 - 127	2	15	
Indeno(1,2,3-c,d)pyrene	0.0641	0.0661	0.0833	0.0833	77	79	60 - 120	3	15	
Dibenz[a,h]anthracene	0.0640	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0669	0.0694	0.0833	0.0833	80	83	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					80	79	32 - 115			
Pyrene-d10					84	83	30 - 124			
Terphenyl-d14					88	88	30 - 117			



Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-29-16
Date Analyzed: 8-29-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0829SM2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-29-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0829S2

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-29-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-282-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	104	107	3	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	59.6	58.2	3	0.50	
Lead	41.7	38.2	9	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: September 2, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-282
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-29-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-282-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	81.3	81	85.7	86	5	
Barium	100	210	106	207	103	2	
Cadmium	50.0	45.9	92	46.1	92	0	
Chromium	100	144	85	144	85	0	
Lead	250	255	85	249	83	2	
Selenium	100	81.9	82	82.6	83	1	
Silver	25.0	20.6	82	21.4	85	4	



Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-29-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.448	90	0.448	90	0	



Date of Report: September 2, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-282
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-26-16

Client ID	Lab ID	% Moisture
A6-MW2S-0-1	08-282-01	8
Dup1-20160822	08-282-02	6
A6-MW2S-1-2	08-282-03	7
A6-MW2S-6-7	08-282-08	8



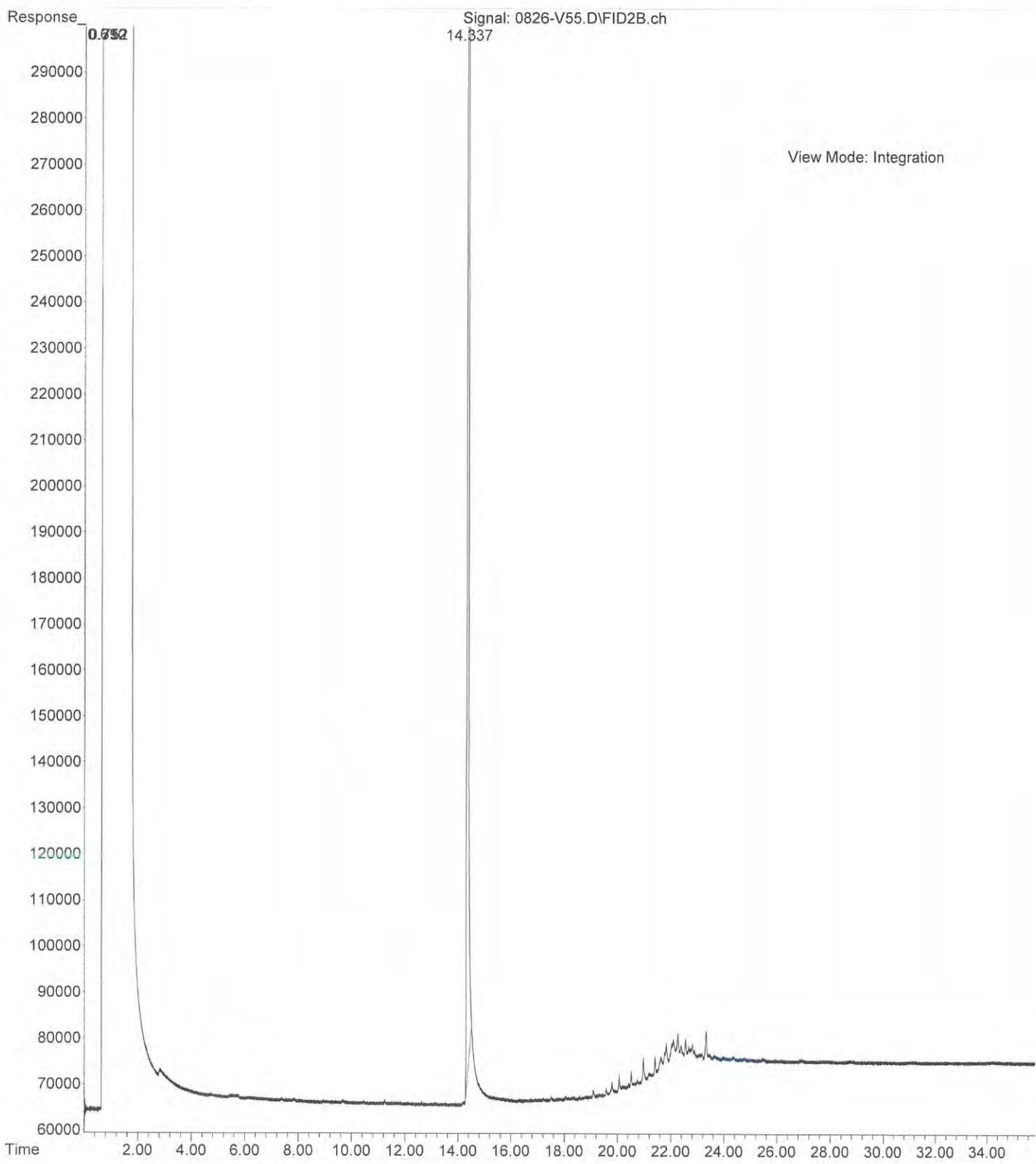


Data Qualifiers and Abbreviations

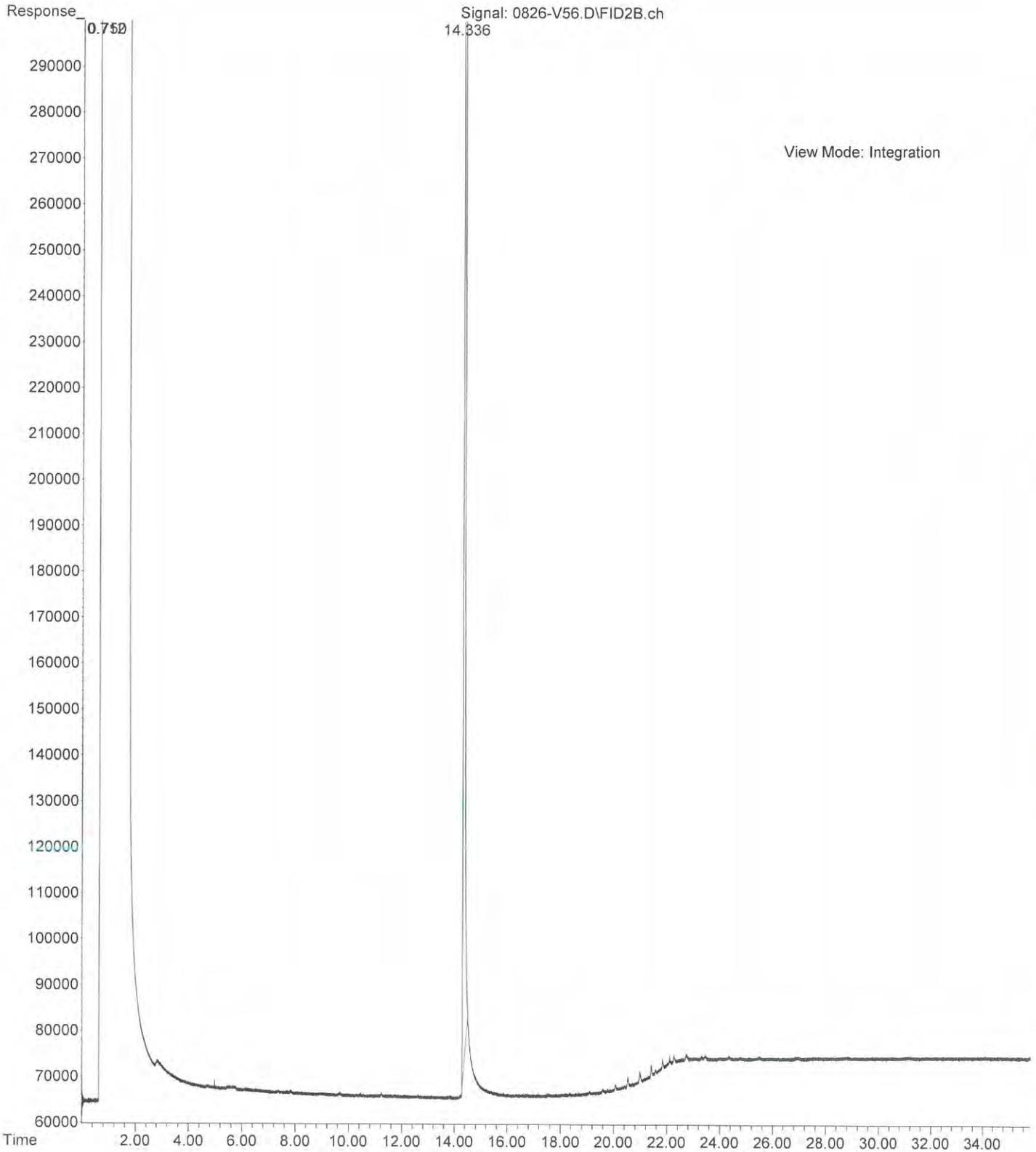
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



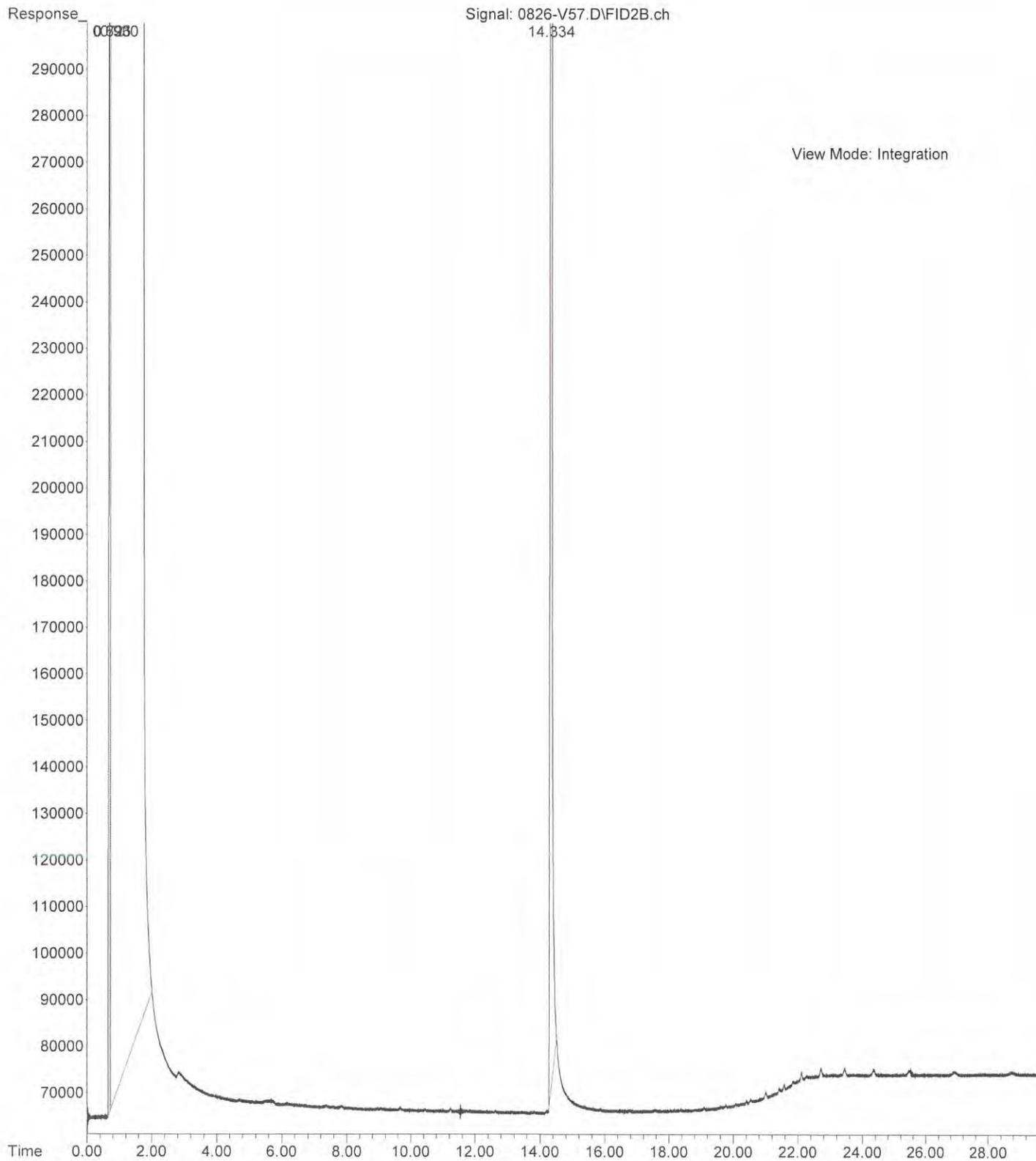
File :X:\DIESELS\VIGO\DATA\V160826.SEC\0826-V55.D
Operator :
Acquired : 26 Aug 2016 15:29 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-282-01
Misc Info :
Vial Number: 55



File :X:\DIESELS\VIGO\DATA\V160826.SEC\0826-V56.D
Operator :
Acquired : 26 Aug 2016 16:11 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-282-03
Misc Info :
Vial Number: 56



File :X:\DIESELS\VIGO\DATA\V160826.SEC\0826-V57.D
Operator :
Acquired : 26 Aug 2016 16:53 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-282-08
Misc Info :
Vial Number: 57





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 15, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-283

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 23, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 22, 2016 and received by the laboratory on August 23, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH-Gx/BTEX Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

The sample chromatogram for sample UG-MW36D-3-4 is not similar to a typical gasoline.

The sample chromatogram for sample UG-MW36D-2-3 is not similar to a typical gasoline.

Samples UG-MW36D-2-3 and UG-MW36D-4-5 were extracted and analyzed two days out of the holding time.

NWTPH-Dx Analysis

Samples UG-MW36D-2-3 and UG-MW36D-4-5 were extracted and analyzed out of hold-time.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Per client's request, sample UG-MW36D-14-15 was extracted and analyzed outside of the holding time.

PAHs EPA 8270D/SIM Analysis

Sample UG-MW36D-3-4 had one surrogate of acid and one of base recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW36D-0-1	08-283-01	Soil	8-22-16	8-23-16	
Dup2-20160822	08-283-02	Soil	8-22-16	8-23-16	
UG-MW36D-1-2	08-283-03	Soil	8-22-16	8-23-16	
UG-MW36D-2-3	08-283-04	Soil	8-22-16	8-23-16	
UG-MW36D-3-4	08-283-05	Soil	8-22-16	8-23-16	
UG-MW36D-4-5	08-283-06	Soil	8-22-16	8-23-16	
UG-MW36D-9-10	08-283-07	Soil	8-22-16	8-23-16	
UG-MW36D-10-10.5	08-283-08	Soil	8-22-16	8-23-16	
UG-MW36D-11-12	08-283-09	Soil	8-22-16	8-23-16	
UG-MW36D-14-15	08-283-10	Soil	8-22-16	8-23-16	
UG-MW36D-19-20	08-283-11	Soil	8-22-16	8-23-16	
TB-20160822	08-283-12	Water	---	8-23-16	
UG-MW36D-24-25	08-283-13	Soil	8-22-16	8-23-16	
UG-MW36D-29-30	08-283-14	Soil	8-22-16	8-23-16	
UG-MW36D-35.5-36.5	08-283-15	Soil	8-22-16	8-23-16	
UG-MW36D-39-40	08-283-16	Soil	8-22-16	8-23-16	



Date of Report: September 15, 2016
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NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-0-1					
Laboratory ID:	08-283-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	55	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				

Client ID:	UG-MW36D-3-4					
Laboratory ID:	08-283-05					
Gasoline Range Organics	Detected	21	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	Detected	53	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	Detected	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				



Date of Report: September 15, 2016
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 Project: 0183-109-01-T500

NWTPH-Gx/BTEX

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-3-4					
Laboratory ID:	08-283-05					
Benzene	ND	0.020	EPA 8021B	8-31-16	8-31-16	
Toluene	ND	0.061	EPA 8021B	8-31-16	8-31-16	
Ethyl Benzene	ND	0.061	EPA 8021B	8-31-16	8-31-16	
m,p-Xylene	ND	0.061	EPA 8021B	8-31-16	8-31-16	
o-Xylene	8.2	0.30	EPA 8021B	8-31-16	8-31-16	
Gasoline	190	6.1	NWTPH-Gx	8-31-16	8-31-16	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>106</i>	<i>68-129</i>				



Date of Report: September 15, 2016
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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-3-4					
Laboratory ID:	08-283-05					
Diesel Range Organics	1300	130	NWTPH-Dx	8-31-16	9-1-16	
Lube Oil Range Organics	4300	270	NWTPH-Dx	8-31-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-4-5					
Laboratory ID:	08-283-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-4-5					
Laboratory ID:	08-283-06					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



Date of Report: September 15, 2016
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HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-9-10					
Laboratory ID:	08-283-07					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



Date of Report: September 15, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-9-10					
Laboratory ID:	08-283-07					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>123</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 15, 2016
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HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-10-10.5					
Laboratory ID:	08-283-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-10-10.5					
Laboratory ID:	08-283-08					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-11-12					
Laboratory ID:	08-283-09					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-11-12					
Laboratory ID:	08-283-09					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>125</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-19-20					
Laboratory ID:	08-283-11					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	0.0015	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-19-20					
Laboratory ID:	08-283-11					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>123</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-24-25					
Laboratory ID:	08-283-13					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	0.0012	0.00081	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-24-25					
Laboratory ID:	08-283-13					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-29-30					
Laboratory ID:	08-283-14					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-29-30					
Laboratory ID:	08-283-14					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-35.5-36.5					
Laboratory ID:	08-283-15					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-35.5-36.5					
Laboratory ID:	08-283-15					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-39-40					
Laboratory ID:	08-283-16					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-39-40					
Laboratory ID:	08-283-16					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-14-15					
Laboratory ID:	08-283-10					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0066	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0066	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0066	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0066	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0083	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-14-15					
Laboratory ID:	08-283-10					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0066	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0066	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160822					
Laboratory ID:	08-283-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160822					
Laboratory ID:	08-283-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-0-1					
Laboratory ID:	08-283-01					
Naphthalene	0.016	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	0.0097	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	0.010	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	0.0079	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	0.061	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	0.015	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	0.072	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	0.072	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	0.041	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	0.054	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	0.058	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	0.020	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	0.046	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	0.031	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	0.0092	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	0.041	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>40</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>52</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>68</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup2-20160822					
Laboratory ID:	08-283-02					
Naphthalene	0.012	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	0.0078	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	0.0088	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	0.0083	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	0.043	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	0.011	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	0.083	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	0.084	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	0.049	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	0.064	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	0.069	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	0.025	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	0.059	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	0.039	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	0.010	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	0.052	0.0073	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>47</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>51</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>66</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-3-4					
Laboratory ID:	08-283-05					
Naphthalene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
2-Methylnaphthalene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
1-Methylnaphthalene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Acenaphthylene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Acenaphthene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Fluorene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Phenanthrene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Anthracene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Fluoranthene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Pyrene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[a]anthracene	0.11	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Chrysene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[b]fluoranthene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[a]pyrene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[g,h,i]perylene	ND	0.035	EPA 8270D/SIM	8-26-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	65	32 - 115				
Pyrene-d10	56	30 - 124				
Terphenyl-d14	120	30 - 117				Q



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-283-01					
Client ID:	UG-MW36D-0-1					
Arsenic	ND	11	6010C	8-26-16	8-26-16	
Barium	170	2.7	6010C	8-26-16	8-26-16	
Cadmium	ND	0.55	6010C	8-26-16	8-26-16	
Chromium	50	0.55	6010C	8-26-16	8-26-16	
Lead	420	5.5	6010C	8-26-16	8-26-16	
Mercury	1.6	1.4	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-26-16	8-26-16	
Silver	ND	1.1	6010C	8-26-16	8-26-16	

Lab ID:	08-283-05					
Client ID:	UG-MW36D-3-4					
Arsenic	ND	11	6010C	8-26-16	8-26-16	
Barium	56	2.6	6010C	8-26-16	8-26-16	
Cadmium	ND	0.53	6010C	8-26-16	8-26-16	
Chromium	41	0.53	6010C	8-26-16	8-26-16	
Lead	ND	5.3	6010C	8-26-16	8-26-16	
Mercury	ND	0.26	7471B	8-29-16	8-30-16	
Selenium	ND	11	6010C	8-26-16	8-26-16	
Silver	ND	1.1	6010C	8-26-16	8-26-16	



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NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-2-3					
Laboratory ID:	08-283-04					
Gasoline	70	7.3	NWTPH-Gx	9-7-16	9-8-16	T
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	68-129				
Client ID:	UG-MW36D-4-5					
Laboratory ID:	08-283-06					
Gasoline	ND	5.2	NWTPH-Gx	9-7-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	68-129				



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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-2-3					
Laboratory ID:	08-283-04					
Diesel Range Organics	570	27	NWTPH-Dx	9-7-16	9-8-16	
Lube Oil Range Organics	2300	54	NWTPH-Dx	9-7-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				
Client ID:	UG-MW36D-4-5					
Laboratory ID:	08-283-06					
Diesel Range Organics	ND	26	NWTPH-Dx	9-7-16	9-8-16	
Lube Oil Range Organics	ND	53	NWTPH-Dx	9-7-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	08-283-02					
Client ID:	Dup2-20160822					
<hr/>						
Lead	220	5.5	6010C	9-8-16	9-8-16	
Mercury	1.5	0.55	7471B	9-15-16	9-15-16	
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<hr/>						
Lab ID:	08-283-03					
Client ID:	UG-MW36D-1-2					
<hr/>						
Lead	370	5.6	6010C	9-8-16	9-9-16	
Mercury	0.58	0.28	7471B	9-15-16	9-15-16	
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Lab ID:	08-283-04					
Client ID:	UG-MW36D-2-3					
<hr/>						
Lead	210	5.4	6010C	9-8-16	9-9-16	
Mercury	ND	0.27	7471B	9-15-16	9-15-16	
<hr/>						



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



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**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831S1					
Benzene	ND	0.020	EPA 8021B	8-31-16	8-31-16	
Toluene	ND	0.050	EPA 8021B	8-31-16	8-31-16	
Ethyl Benzene	ND	0.050	EPA 8021B	8-31-16	8-31-16	
m,p-Xylene	ND	0.050	EPA 8021B	8-31-16	8-31-16	
o-Xylene	ND	0.050	EPA 8021B	8-31-16	8-31-16	
Gasoline	ND	5.0	NWTPH-Gx	8-31-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	68-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-369-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				120	119	68-129		

SPIKE BLANKS

Laboratory ID:	SB0831S1								
	SB	SBD	SB	SBD	SB	SBD			
Benzene	1.10	1.05	1.00	1.00	110	105	76-124	5	17
Toluene	1.09	1.04	1.00	1.00	109	104	78-124	5	16
Ethyl Benzene	1.12	1.06	1.00	1.00	112	106	77-123	6	17
m,p-Xylene	1.05	1.01	1.00	1.00	105	101	78-124	4	17
o-Xylene	1.10	1.05	1.00	1.00	110	105	76-123	5	18
<i>Surrogate:</i>									
<i>Fluorobenzene</i>					110	107	68-129		



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831S1					
Diesel Range Organics	ND	25	NWTPH-Dx	8-31-16	8-31-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	8-31-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	128	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-320-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range Organics	71.0	67.0	NA	NA	NA	NA	6	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			111	103	50-150			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S2					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0826S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0826S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0427	0.0460	0.0500	0.0500	85	92	68-126	7	15	
Benzene	0.0478	0.0508	0.0500	0.0500	96	102	70-121	6	15	
Trichloroethene	0.0436	0.0467	0.0500	0.0500	87	93	75-120	7	15	
Toluene	0.0450	0.0498	0.0500	0.0500	90	100	80-120	10	15	
Chlorobenzene	0.0436	0.0457	0.0500	0.0500	87	91	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>107</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>102</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>91</i>	<i>94</i>	<i>60-146</i>			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0909S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 15, 2016
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 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0909S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0403	0.0417	0.0500	0.0500	81	83	68-126	3	15	
Benzene	0.0432	0.0453	0.0500	0.0500	86	91	70-121	5	15	
Trichloroethene	0.0475	0.0495	0.0500	0.0500	95	99	75-120	4	15	
Toluene	0.0471	0.0488	0.0500	0.0500	94	98	80-120	4	15	
Chlorobenzene	0.0479	0.0486	0.0500	0.0500	96	97	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	103	76-131			
<i>Toluene-d8</i>					98	103	80-126			
<i>4-Bromofluorobenzene</i>					96	98	60-146			



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0830W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.39	10.2	10.0	10.0	94	102	62-132	8	20	
Benzene	9.59	10.6	10.0	10.0	96	106	75-121	10	15	
Trichloroethene	9.04	9.06	10.0	10.0	90	91	65-115	0	15	
Toluene	10.2	10.4	10.0	10.0	102	104	78-120	2	15	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	102	71-131			
<i>Toluene-d8</i>					97	99	80-127			
<i>4-Bromofluorobenzene</i>					91	93	80-125			



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 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>30 - 117</i>				



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0826S1									
Naphthalene	0.0713	0.0733	0.0833	0.0833	86	88	61 - 112	3	15	
Acenaphthylene	0.0674	0.0682	0.0833	0.0833	81	82	65 - 116	1	15	
Acenaphthene	0.0659	0.0652	0.0833	0.0833	79	78	62 - 116	1	13	
Fluorene	0.0732	0.0737	0.0833	0.0833	88	88	60 - 115	1	15	
Phenanthrene	0.0676	0.0682	0.0833	0.0833	81	82	54 - 114	1	15	
Anthracene	0.0830	0.0849	0.0833	0.0833	100	102	70 - 140	2	15	
Fluoranthene	0.0728	0.0745	0.0833	0.0833	87	89	60 - 118	2	15	
Pyrene	0.0737	0.0756	0.0833	0.0833	88	91	65 - 115	3	15	
Benzo[a]anthracene	0.0690	0.0728	0.0833	0.0833	83	87	59 - 129	5	15	
Chrysene	0.0740	0.0737	0.0833	0.0833	89	88	60 - 122	0	15	
Benzo[b]fluoranthene	0.0638	0.0620	0.0833	0.0833	77	74	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0677	0.0743	0.0833	0.0833	81	89	58 - 124	9	16	
Benzo[a]pyrene	0.0693	0.0710	0.0833	0.0833	83	85	62 - 127	2	15	
Indeno(1,2,3-c,d)pyrene	0.0641	0.0661	0.0833	0.0833	77	79	60 - 120	3	15	
Dibenz[a,h]anthracene	0.0640	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0669	0.0694	0.0833	0.0833	80	83	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					80	79	32 - 115			
Pyrene-d10					84	83	30 - 124			
Terphenyl-d14					88	88	30 - 117			



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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-26&29-16
 Date Analyzed: 8-26&30-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: MB0826SM1&MB0829S2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-26&29-16

Date Analyzed: 8-26&30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	52.9	51.0	4	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	39.2	35.8	9	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-26&29-16

Date Analyzed: 8-26&30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	85.3	85	84.5	85	1	
Barium	100	151	98	152	99	1	
Cadmium	50.0	45.8	92	46.8	94	2	
Chromium	100	129	90	136	96	5	
Lead	250	219	88	223	89	2	
Mercury	0.500	0.448	90	0.448	90	0	
Selenium	100	82.5	82	83.6	84	1	
Silver	25.0	19.1	76	19.1	76	0	



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907S2					
Gasoline	ND	5.0	NWTPH-Gx	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	68-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-038-16							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				94	85	68-129		



Date of Report: September 15, 2016
 Samples Submitted: August 23, 2016
 Laboratory Reference: 1608-283
 Project: 0183-109-01-T500

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0907S2					
Diesel Range Organics	ND	25	NWTPH-Dx	9-7-16	9-7-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-038-10							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				85	91	50-150		



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

**TOTAL LEAD
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-8-16
Date Analyzed: 9-8-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0908SM1

Analyte	Method	Result	PQL
Lead	6010C	ND	5.0



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-15-16
Date Analyzed: 9-15-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0915S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

**TOTAL LEAD
EPA 6010C
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-8-16

Date Analyzed: 9-8-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	204	226	10	5.0	



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-15-16

Date Analyzed: 9-15-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-03

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	0.524	0.501	5	0.25	



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

**TOTAL LEAD
EPA 6010C
MS/MSD QUALITY CONTROL**

Date Extracted: 9-8-16

Date Analyzed: 9-8-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	431	91	447	97	4	



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 9-15-16

Date Analyzed: 9-15-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-283-03

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.941	83	0.954	86	1	



Date of Report: September 15, 2016
Samples Submitted: August 23, 2016
Laboratory Reference: 1608-283
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-26&9-8&9-16

Client ID	Lab ID	% Moisture
UG-MW36D-0-1	08-283-01	9
Dup2-20160822	08-283-02	9
UG-MW36D-1-2	08-283-03	10
UG-MW36D-2-3	08-283-04	8
UG-MW36D-3-4	08-283-05	6
UG-MW36D-4-5	08-283-06	5
UG-MW36D-9-10	08-283-07	7
UG-MW36D-10-10.5	08-283-08	8
UG-MW36D-11-12	08-283-09	10
UG-MW36D-14-15	08-283-10	11
UG-MW36D-19-20	08-283-11	17
UG-MW36D-24-25	08-283-13	16
UG-MW36D-29-30	08-283-14	13
UG-MW36D-35.5-36.5	08-283-15	18
UG-MW36D-39-40	08-283-16	14





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical gasoline.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: 08-283

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	<input checked="" type="checkbox"/>
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	

% Moisture

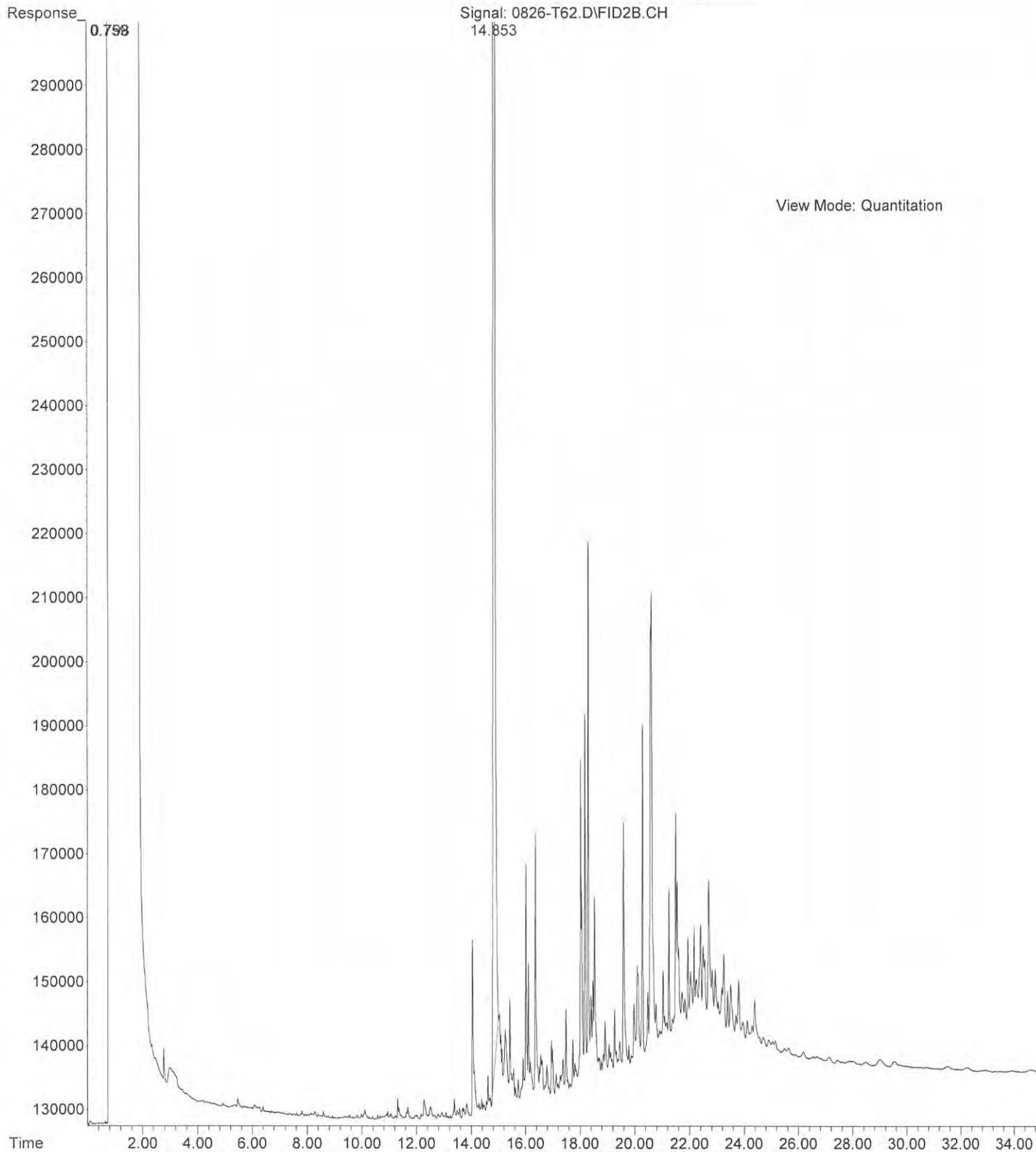
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	UG-MW36D-79-20	8/22/16	1355	S	4
12	TB-20160822				1
13	UG-MW36D-24-25		1516		4
14	UG-MW36D-29-30		1515		4
15	UG-MW36D-35.5-36.5		1540		4
16	UG-MW36D-39-40		1545		4

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Joe De</i>	GEI	8/22/16	1355	
Received	<i>Mary Morris</i>	GEI	8/23/16	16:35	
Relinquished	<i>Mary Morris</i>	GEI	8/23/16	10:20 AM	
Received	<i>SW</i>	SPCCOY	8/23/16	10:20	
Relinquished	<i>SW</i>	SPCCOY	8/23/16	1144	
Received	<i>SW</i>	SPCCOY	8/23/16	1144	
Reviewed/Date		Reviewed/Date			

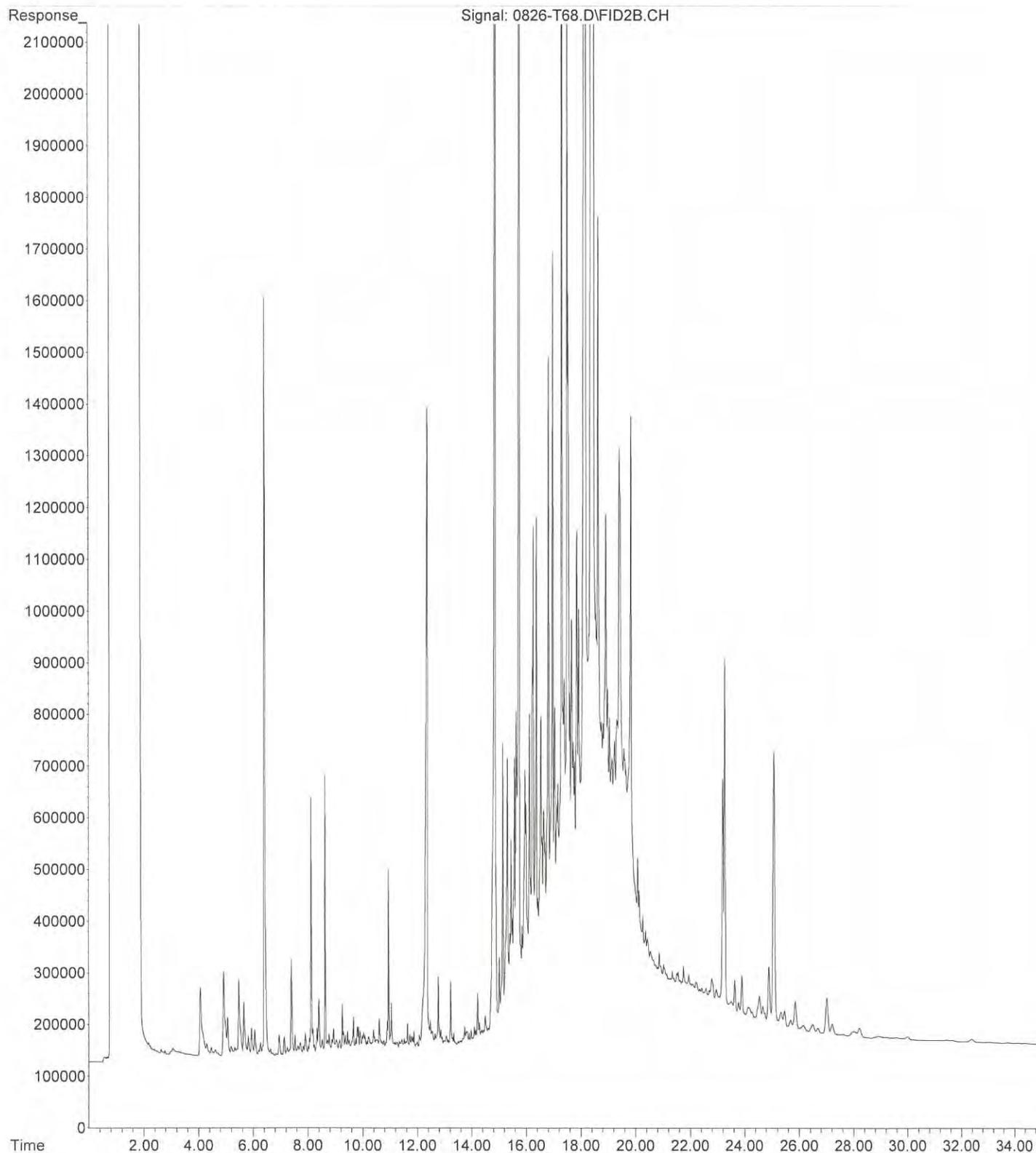
Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

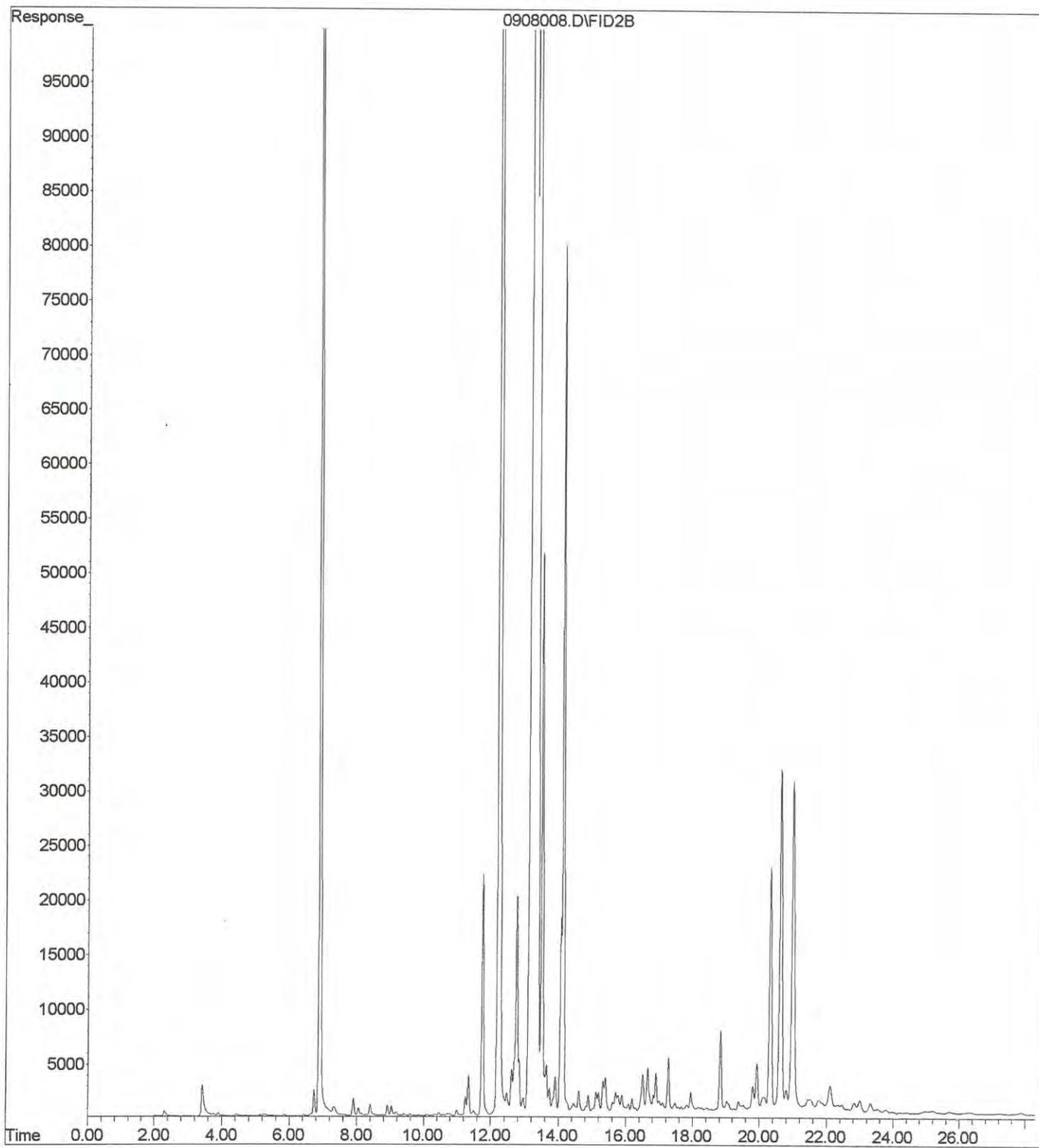
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Acquired : 26 Aug 2016 18:32 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-283-01
Misc Info :
Vial Number: 62



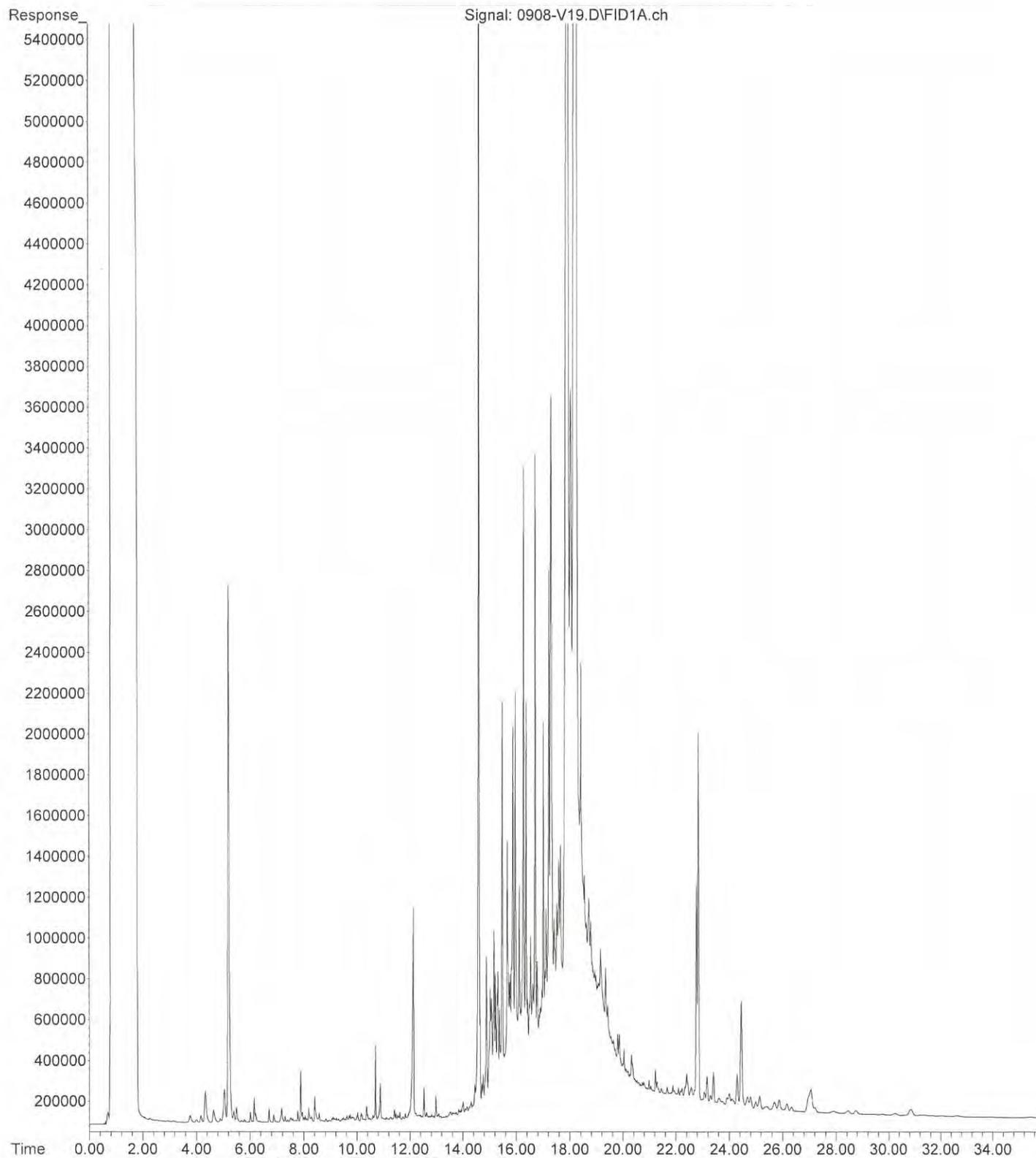
File :X:\DIESELS\TERI\DATA\T160826.SEC\0826-T68.D
Operator : ZT
Acquired : 26 Aug 2016 22:53 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-283-05
Misc Info :
Vial Number: 68



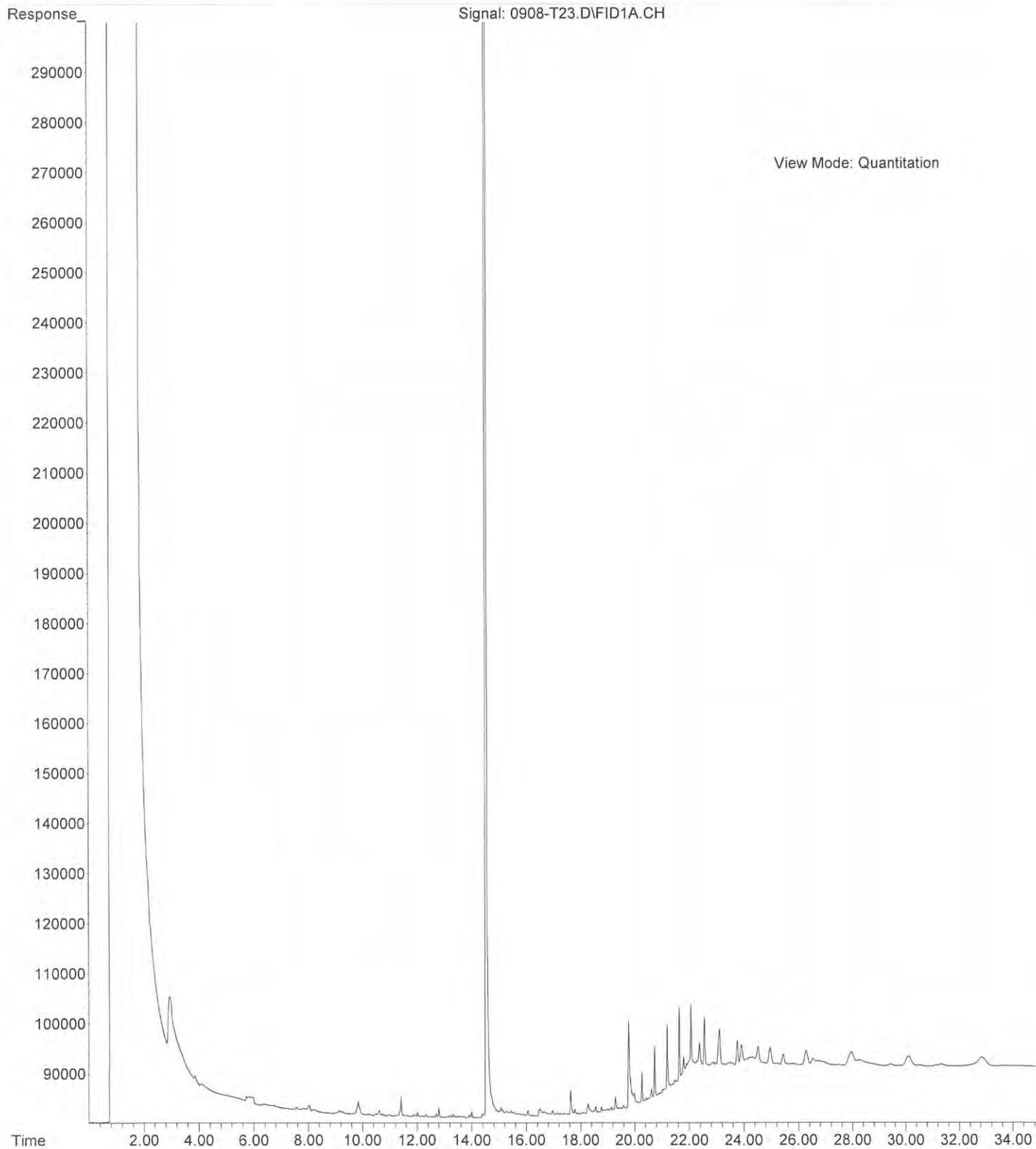
File : X:\BTEX\DARYL\DATA\D160908\0908008.D
Operator :
Acquired : 8 Sep 2016 14:55 using AcqMethod 160825B.M
Instrument : Daryl
Sample Name: 08-283-04s
Misc Info :
Vial Number: 8



File :X:\DIESELS\VIGO\DATA\V160908\0908-V19.D
Operator :
Acquired : 8 Sep 2016 23:07 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-283-04
Misc Info :
Vial Number: 19



File : X:\DIESELS\TERI\DATA\T160908\0908-T23.D
Operator : ZT
Acquired : 09 Sep 2016 1:38 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-283-06
Misc Info :
Vial Number: 23





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 30, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-299

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-299
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 23, 2016 and received by the laboratory on August 24, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-299
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW27S-0-1	08-299-01	Soil	8-23-16	8-24-16	
Dup1-20160823	08-299-02	Soil	8-23-16	8-24-16	
UG-MW27S-6-7	08-299-06	Soil	8-23-16	8-24-16	
UG-MW27S-14-15	08-299-08	Soil	8-23-16	8-24-16	
UG-MW27S-25.5-26.5	08-299-10	Soil	8-23-16	8-24-16	
UG-MW27S-26.5-27.5	08-299-11	Soil	8-23-16	8-24-16	
UG-MW27S-29.5-30.5	08-299-12	Soil	8-23-16	8-24-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-0-1					
Laboratory ID:	08-299-01					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-0-1					
Laboratory ID:	08-299-01					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>121</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160823					
Laboratory ID:	08-299-02					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160823					
Laboratory ID:	08-299-02					
1,1,2-Trichloroethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>122</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-6-7					
Laboratory ID:	08-299-06					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-6-7					
Laboratory ID:	08-299-06					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>124</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-14-15					
Laboratory ID:	08-299-08					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-14-15					
Laboratory ID:	08-299-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-25.5-26.5					
Laboratory ID:	08-299-10					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-25.5-26.5					
Laboratory ID:	08-299-10					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-26.5-27.5					
Laboratory ID:	08-299-11					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-26.5-27.5					
Laboratory ID:	08-299-11					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-29.5-30.5					
Laboratory ID:	08-299-12					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-29.5-30.5					
Laboratory ID:	08-299-12					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>85</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S2					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S2					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0827S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0826S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0427	0.0460	0.0500	0.0500	85	92	68-126	7	15	
Benzene	0.0478	0.0508	0.0500	0.0500	96	102	70-121	6	15	
Trichloroethene	0.0436	0.0467	0.0500	0.0500	87	93	75-120	7	15	
Toluene	0.0450	0.0498	0.0500	0.0500	90	100	80-120	10	15	
Chlorobenzene	0.0436	0.0457	0.0500	0.0500	87	91	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>107</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>102</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>91</i>	<i>94</i>	<i>60-146</i>			



Date of Report: August 30, 2016
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 Laboratory Reference: 1608-299
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0827S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0444	0.0470	0.0500	0.0500	89	94	68-126	6	15	
Benzene	0.0498	0.0531	0.0500	0.0500	100	106	70-121	6	15	
Trichloroethene	0.0456	0.0464	0.0500	0.0500	91	93	75-120	2	15	
Toluene	0.0507	0.0521	0.0500	0.0500	101	104	80-120	3	15	
Chlorobenzene	0.0448	0.0464	0.0500	0.0500	90	93	76-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>108</i>	<i>102</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>109</i>	<i>100</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>102</i>	<i>95</i>	<i>60-146</i>			



Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-299
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-26-16

Client ID	Lab ID	% Moisture
UG-MW27S-0-1	08-299-01	5
Dup1-20160823	08-299-02	5
UG-MW27S-6-7	08-299-06	7
UG-MW27S-14-15	08-299-08	7
UG-MW27S-25.5-26.5	08-299-10	12
UG-MW27S-26.5-27.5	08-299-11	14
UG-MW27S-29.5-30.5	08-299-12	17





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-299B

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-299B
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 23, 2016 and received by the laboratory on August 24, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per client's request, sample TB-20160823 was analyzed outside of the holding time.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 13, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-299B
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
TB-20160823	08-299-13	Water	---	8-24-16	



Date of Report: September 13, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160823					
Laboratory ID:	08-299-13					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	2.5	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160823					
Laboratory ID:	08-299-13					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	2.5	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	1.0	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-299B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0909W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.44	9.46	10.0	10.0	94	95	62-132	0	20	
Benzene	10.4	10.5	10.0	10.0	104	105	75-121	1	15	
Trichloroethene	8.76	8.61	10.0	10.0	88	86	65-115	2	15	
Toluene	10.2	10.1	10.0	10.0	102	101	78-120	1	15	
Chlorobenzene	9.82	9.54	10.0	10.0	98	95	77-118	3	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>109</i>	<i>71-131</i>			
<i>Toluene-d8</i>					<i>102</i>	<i>101</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>94</i>	<i>93</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TYP analysis 5 Days)

_____ (other)

Laboratory Number:

08-299

Company: **GeoEngineers**
 Project Number: **0153-1001-01 T500**
 Project Name: **WT-2016-12 I**
 Project Manager: **Tricia DeDome**
 Sampled by: **SCD/RC**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	UG-MW27S-0-1	8/28/16	1000	S	5
2	Dup1-WW27S-20160823		0700		
3	UG-MW27S-1-2		1005		
4	UG-MW27S-2-3		1010		
5	UG-MW27S-3-4		1015		
6	UG-MW27S-6-7		1025		4
7	UG-MW27S-9-10		1020		
8	UG-MW27S-14-15		1035		
9	UG-MW27S-19-20		1040		
10	UG-MW27S-25.5-26.5		1105		

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
5						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>
						<input checked="" type="checkbox"/>												<input checked="" type="checkbox"/>

Signature: *[Handwritten Signature]* Company: **GEI** Date: **8/28/16** Time: **1230** Comments/Special Instructions: **(Added 8/25/16 DB STA)**

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>[Handwritten Signature]</i>	GEI	8/28/16	1230	(Added 8/25/16 DB STA)
Received	<i>[Handwritten Signature]</i>	TH	8/24	8 am	
Relinquished					
Received	<i>[Handwritten Signature]</i>	SPERRY	8/24/16	1200	
Relinquished	<i>[Handwritten Signature]</i>	SPERRY	8/24/16	1:00	
Received	<i>[Handwritten Signature]</i>	OSBE	8/24/16	1300	
Reviewed/Date					

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98062
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-299**

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	<input checked="" type="checkbox"/>
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	

% Moisture

Company: Geo Engineers
 Project Number: 0183-109-01 T500
 Project Name: WWT-2016-RI
 Project Manager: Tricia DeOme
 Sampled by: SCD/RC

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	UG-MW275-26.5-27.5	8/23/16	1110	S
12	UG-MW275-29.5-30.5			W
13	TB-20160523			W

Signature	Company	Date	Time
<i>[Signature]</i>	GET	8/23/16	1230
<i>[Signature]</i>	TH	8/24/16	6 am
<i>[Signature]</i>	SEERAY	8/24/16	12
<i>[Signature]</i>	SEERAY	8/24/16	1200
<i>[Signature]</i>	SEERAY	8/24/16	1:00
<i>[Signature]</i>	ORIS	8/24/16	1300

Comments/Special Instructions: Added 9/1/16 DB (STA)

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 30, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-300

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 24, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-300
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 23, 2016 and received by the laboratory on August 24, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-300
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW8S-3-4	08-300-04	Soil	8-23-16	8-24-16	
A11-MW8S-9-10	08-300-06	Soil	8-23-16	8-24-16	
A11-MW8S-15-16	08-300-07	Soil	8-23-16	8-24-16	
A11-MW8S-16-17	08-300-08	Soil	8-23-16	8-24-16	
A11-MW8S-18-19	08-300-09	Soil	8-23-16	8-24-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-3-4					
Laboratory ID:	08-300-04					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-3-4					
Laboratory ID:	08-300-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-9-10					
Laboratory ID:	08-300-06					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	0.0026	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	



Date of Report: August 30, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-9-10					
Laboratory ID:	08-300-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-15-16					
Laboratory ID:	08-300-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	0.0075	0.00093	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	



Date of Report: August 30, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-15-16					
Laboratory ID:	08-300-07					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-16-17					
Laboratory ID:	08-300-08					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	0.0065	0.00086	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	



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 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-16-17					
Laboratory ID:	08-300-08					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-18-19					
Laboratory ID:	08-300-09					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	0.0083	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-18-19					
Laboratory ID:	08-300-09					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0827S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-27-16	8-27-16	
Chloromethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Iodomethane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
Methylene Chloride	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chloroform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	



Date of Report: August 30, 2016
 Samples Submitted: August 24, 2016
 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0827S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromoform	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-27-16	8-27-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-27-16	8-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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 Laboratory Reference: 1608-300
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0827S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0516	0.0515	0.0500	0.0500	103	103	68-126	0	15	
Benzene	0.0491	0.0496	0.0500	0.0500	98	99	70-121	1	15	
Trichloroethene	0.0475	0.0488	0.0500	0.0500	95	98	75-120	3	15	
Toluene	0.0500	0.0507	0.0500	0.0500	100	101	80-120	1	15	
Chlorobenzene	0.0516	0.0512	0.0500	0.0500	103	102	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					102	99	76-131			
<i>Toluene-d8</i>					100	103	80-126			
<i>4-Bromofluorobenzene</i>					102	101	60-146			



Date of Report: August 30, 2016
Samples Submitted: August 24, 2016
Laboratory Reference: 1608-300
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-27-16

Client ID	Lab ID	% Moisture
A11-MW8S-3-4	08-300-04	7
A11-MW8S-9-10	08-300-06	7
A11-MW8S-15-16	08-300-07	8
A11-MW8S-16-17	08-300-08	4
A11-MW8S-18-19	08-300-09	5





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 6, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-324

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-324
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 24, 2016 and received by the laboratory on August 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW11D-0-1,1-2,2-3,3-4 Comp.	08-324-01,02,03,04 Comp.	Soil	8-24-16	8-25-16	
A11-MW11D-3-4	08-324-04	Soil	8-24-16	8-25-16	
A11-MW11D-7-8	08-324-05	Soil	8-24-16	8-25-16	
A11-MW11D-8-9	08-324-06	Soil	8-24-16	8-25-16	
A11-MW11D-9-10	08-324-07	Soil	8-24-16	8-25-16	
A11-MW11D-19-20	08-324-09	Soil	8-24-16	8-25-16	
A11-MW11D-29-30	08-324-11	Soil	8-24-16	8-25-16	
A11-MW11D-31-32	08-324-12	Soil	8-24-16	8-25-16	
A11-MW11D-39-40	08-324-14	Soil	8-24-16	8-25-16	
A11-MW11D-49-50	08-324-16	Soil	8-24-16	8-25-16	
A11-MW11D-54-55	08-324-17	Soil	8-24-16	8-25-16	
A11-MW11D-59-60	08-324-18	Soil	8-24-16	8-25-16	
TB-20160824	08-324-19	Water	---	8-25-16	



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-0-1,1-2,2-3,3-4 Comp.					
Laboratory ID:	08-324-01,02,03,04 Comp.					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	58	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Client ID:	A11-MW11D-7-8					
Laboratory ID:	08-324-05					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	120	50-150				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-3-4					
Laboratory ID:	08-324-04					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Acetone	ND	0.0063	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Carbon Disulfide	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0069	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Methyl t-Butyl Ether	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Vinyl Acetate	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
2-Butanone	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Benzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Toluene	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-3-4					
Laboratory ID:	08-324-04					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
2-Hexanone	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Ethylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
m,p-Xylene	ND	0.0019	EPA 8260C	8-28-16	8-28-16	
o-Xylene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Styrene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Isopropylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
n-Propylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,3,5-Trimethylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
tert-Butylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trimethylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
sec-Butylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
p-Isopropyltoluene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
n-Butylbenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Naphthalene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-7-8					
Laboratory ID:	08-324-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0039	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0039	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0039	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0039	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-7-8					
Laboratory ID:	08-324-05					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-8-9					
Laboratory ID:	08-324-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0046	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0046	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0046	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0066	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-8-9					
Laboratory ID:	08-324-06					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-9-10					
Laboratory ID:	08-324-07					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0077	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-9-10					
Laboratory ID:	08-324-07					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-19-20					
Laboratory ID:	08-324-09					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0069	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	0.0010	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-19-20					
Laboratory ID:	08-324-09					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-29-30					
Laboratory ID:	08-324-11					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0078	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-29-30					
Laboratory ID:	08-324-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-31-32					
Laboratory ID:	08-324-12					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-31-32					
Laboratory ID:	08-324-12					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-39-40					
Laboratory ID:	08-324-14					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0072	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-39-40					
Laboratory ID:	08-324-14					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-49-50					
Laboratory ID:	08-324-16					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0045	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0045	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0045	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0064	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-49-50					
Laboratory ID:	08-324-16					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-54-55					
Laboratory ID:	08-324-17					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0041	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0041	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0041	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0059	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	0.0049	0.00082	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-54-55					
Laboratory ID:	08-324-17					
1,1,2-Trichloroethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00082	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-59-60					
Laboratory ID:	08-324-18					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0042	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0042	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0042	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0060	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	0.0050	0.00083	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-59-60					
Laboratory ID:	08-324-18					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160824					
Laboratory ID:	08-324-19					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160824					
Laboratory ID:	08-324-19					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-0-1,1-2,2-3,3-4 Comp.					
Laboratory ID:	08-324-01,02,03,04 Comp.					
Naphthalene	1.6	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
2-Methylnaphthalene	0.79	0.0077	EPA 8270D/SIM	8-26-16	8-31-16	
1-Methylnaphthalene	0.85	0.0077	EPA 8270D/SIM	8-26-16	8-31-16	
Acenaphthylene	5.1	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Acenaphthene	2.4	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Fluorene	5.2	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Phenanthrene	43	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Anthracene	15	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Fluoranthene	46	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Pyrene	41	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[a]anthracene	23	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Chrysene	21	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[b]fluoranthene	19	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo(j,k)fluoranthene	8.0	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[a]pyrene	17	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	11	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Dibenz[a,h]anthracene	2.9	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[g,h,i]perylene	11	1.5	EPA 8270D/SIM	8-26-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	71	32 - 115				
Pyrene-d10	76	30 - 124				
Terphenyl-d14	74	30 - 117				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-7-8					
Laboratory ID:	08-324-05					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Chrysene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	8-26-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>63</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>80</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID: 08-324-01,02,03,04 Comp.						
Client ID: A11-MW11D-0-1,1-2,2-3,3-4 Comp.						
Arsenic	ND	12	6010C	8-31-16	8-31-16	
Barium	91	2.9	6010C	8-31-16	8-31-16	
Cadmium	ND	0.58	6010C	8-31-16	8-31-16	
Chromium	38	0.58	6010C	8-31-16	8-31-16	
Lead	160	5.8	6010C	8-31-16	8-31-16	
Mercury	0.49	0.29	7471B	9-2-16	9-2-16	
Selenium	ND	12	6010C	8-31-16	8-31-16	
Silver	ND	1.2	6010C	8-31-16	8-31-16	

Lab ID: 08-324-05						
Client ID: A11-MW11D-7-8						
Arsenic	ND	11	6010C	8-31-16	8-31-16	
Barium	43	2.7	6010C	8-31-16	8-31-16	
Cadmium	ND	0.54	6010C	8-31-16	8-31-16	
Chromium	44	0.54	6010C	8-31-16	8-31-16	
Lead	ND	5.4	6010C	8-31-16	8-31-16	
Mercury	ND	0.27	7471B	9-2-16	9-2-16	
Selenium	ND	11	6010C	8-31-16	8-31-16	
Silver	ND	1.1	6010C	8-31-16	8-31-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



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 Project: 0183-109-01-T500

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0828S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-28-16	8-28-16	
Chloromethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Acetone	ND	0.0066	EPA 8260C	8-28-16	8-28-16	
Iodomethane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Methylene Chloride	ND	0.0072	EPA 8260C	8-28-16	8-28-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Butanone	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chloroform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Benzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Toluene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0828S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Hexanone	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Ethylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
m,p-Xylene	ND	0.0020	EPA 8260C	8-28-16	8-28-16	
o-Xylene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Styrene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromoform	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-28-16	8-28-16	
Naphthalene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-28-16	8-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**VOLATILES by EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0828S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0456	0.0492	0.0500	0.0500	91	98	68-126	8	15	
Benzene	0.0455	0.0465	0.0500	0.0500	91	93	70-121	2	15	
Trichloroethene	0.0452	0.0484	0.0500	0.0500	90	97	75-120	7	15	
Toluene	0.0467	0.0502	0.0500	0.0500	93	100	80-120	7	15	
Chlorobenzene	0.0478	0.0508	0.0500	0.0500	96	102	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	85	76-131			
<i>Toluene-d8</i>					100	104	80-126			
<i>4-Bromofluorobenzene</i>					99	100	60-146			



Date of Report: September 6, 2016
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 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0830W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.39	10.2	10.0	10.0	94	102	62-132	8	20	
Benzene	9.59	10.6	10.0	10.0	96	106	75-121	10	15	
Trichloroethene	9.04	9.06	10.0	10.0	90	91	65-115	0	15	
Toluene	10.2	10.4	10.0	10.0	102	104	78-120	2	15	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	77-118	2	15	
<i>Surrogate:</i>										
Dibromofluoromethane					92	102	71-131			
Toluene-d8					97	99	80-127			
4-Bromofluorobenzene					91	93	80-125			



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-26-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>70</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>79</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>82</i>	<i>30 - 117</i>				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0826S1									
Naphthalene	0.0713	0.0733	0.0833	0.0833	86	88	61 - 112	3	15	
Acenaphthylene	0.0674	0.0682	0.0833	0.0833	81	82	65 - 116	1	15	
Acenaphthene	0.0659	0.0652	0.0833	0.0833	79	78	62 - 116	1	13	
Fluorene	0.0732	0.0737	0.0833	0.0833	88	88	60 - 115	1	15	
Phenanthrene	0.0676	0.0682	0.0833	0.0833	81	82	54 - 114	1	15	
Anthracene	0.0830	0.0849	0.0833	0.0833	100	102	70 - 140	2	15	
Fluoranthene	0.0728	0.0745	0.0833	0.0833	87	89	60 - 118	2	15	
Pyrene	0.0737	0.0756	0.0833	0.0833	88	91	65 - 115	3	15	
Benzo[a]anthracene	0.0690	0.0728	0.0833	0.0833	83	87	59 - 129	5	15	
Chrysene	0.0740	0.0737	0.0833	0.0833	89	88	60 - 122	0	15	
Benzo[b]fluoranthene	0.0638	0.0620	0.0833	0.0833	77	74	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0677	0.0743	0.0833	0.0833	81	89	58 - 124	9	16	
Benzo[a]pyrene	0.0693	0.0710	0.0833	0.0833	83	85	62 - 127	2	15	
Indeno(1,2,3-c,d)pyrene	0.0641	0.0661	0.0833	0.0833	77	79	60 - 120	3	15	
Dibenz[a,h]anthracene	0.0640	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0669	0.0694	0.0833	0.0833	80	83	63 - 117	4	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					80	79	32 - 115			
Pyrene-d10					84	83	30 - 124			
Terphenyl-d14					88	88	30 - 117			



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-31&9-2-16
 Date Analyzed: 8-31&9-2-16
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB0831SM3&MB0902S2

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-31&9-2-16
 Date Analyzed: 8-31&9-2-16

Matrix: Soil
 Units: mg/kg (ppm)

Lab ID: 08-328-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	37.0	37.2	1	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	32.6	31.4	4	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C/7471B
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-31&9-2-16

Date Analyzed: 8-31&9-2-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-328-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	102	102	101	101	1	
Barium	100	139	102	143	106	3	
Cadmium	50.0	46.4	93	46.2	92	0	
Chromium	100	119	87	120	88	1	
Lead	250	237	95	238	95	0	
Mercury	0.500	0.503	101	0.525	105	4	
Selenium	100	101	101	102.0	102	1	
Silver	25.0	22.9	92	22.4	90	2	



Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-324
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-26&27-16

Client ID	Lab ID	% Moisture
A11-MW11D-0-1,1-2,2-3,3-4 Comp.	08-324-01,02,03,04 Comp.	13
A11-MW11D-3-4	08-324-04	15
A11-MW11D-7-8	08-324-05	8
A11-MW11D-8-9	08-324-06	6
A11-MW11D-9-10	08-324-07	7
A11-MW11D-19-20	08-324-09	7
A11-MW11D-29-30	08-324-11	6
A11-MW11D-31-32	08-324-12	5
A11-MW11D-39-40	08-324-14	7
A11-MW11D-49-50	08-324-16	5
A11-MW11D-54-55	08-324-17	9
A11-MW11D-59-60	08-324-18	7





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: GeoEngineers

Project Number: 0183-109-01 TSD0

Project Name: WWT-2016 RI

Project Manager: Tricia DeCone

Sampled by: SSD/RE

Turnaround Request (in working days)
(Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: **08-324**

Lab ID

Date Sampled

Time Sampled

Matrix

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx (Acid / SG Clean-up)

Volatiles 8260C

Halogenated Volatiles 8260C

EDB EPA 8011 (Waters Only)

Semivolatiles 8270D/SIM (with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

% Moisture

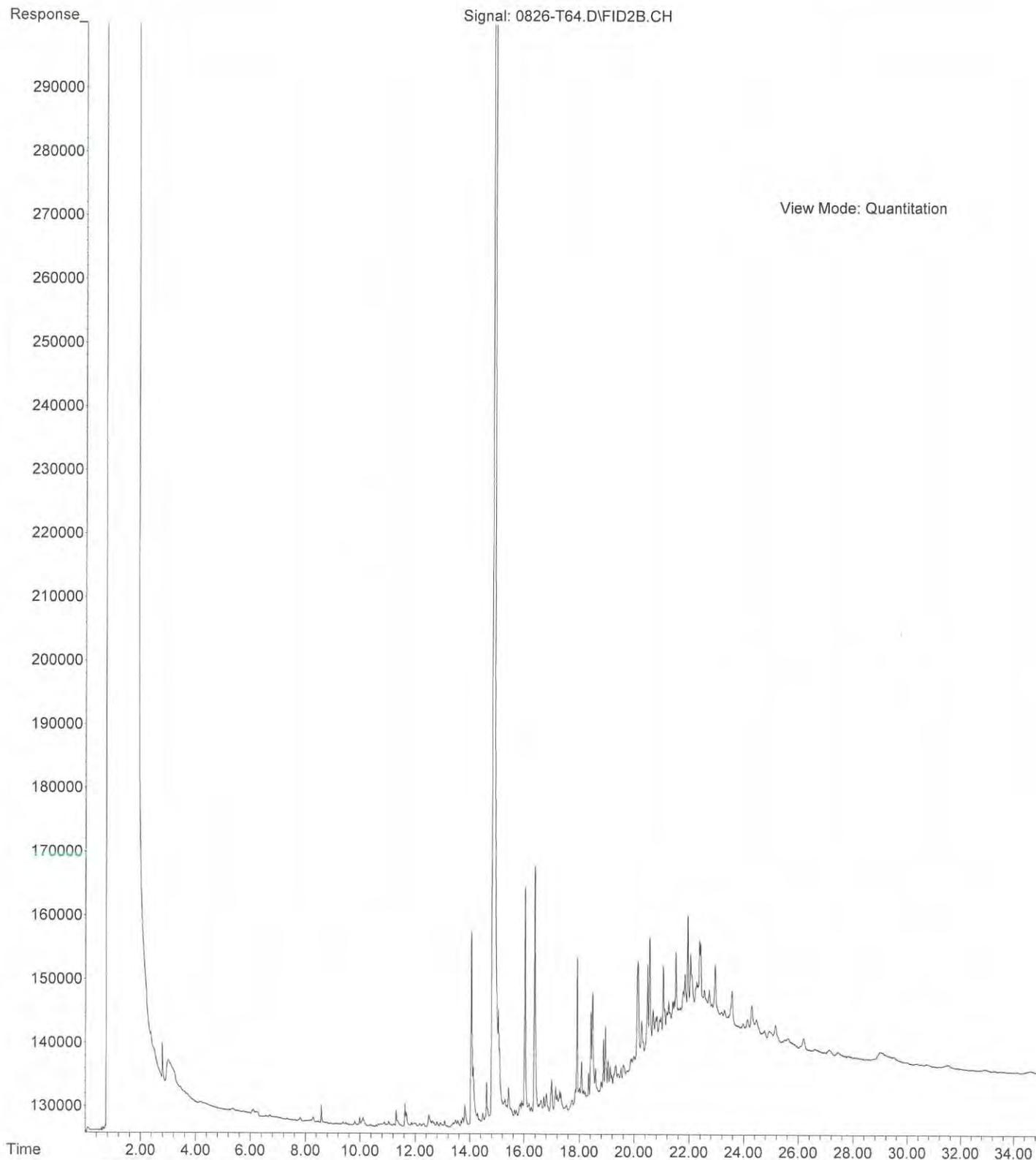
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
11	A11-mW11D-29-30	8/24/16	1325	S	4						X												X
12	A11-mW11D-31-32		1355								X												X
13	A11-mW11D-34-35		1358								X												X
14	A11-mW11D-39-40		1403								X												X
15	A11-mW11D-44-45		1425								X												X
16	A11-mW11D-49-50		1430								X												X
17	A11-mW11D-54-55		1530								X												X
18	A11-mW11D-59-60		1535								X												X
19	TB-20160824			W							X												X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	LEI	8/25/16	0245	
<i>[Signature]</i>	GEI	8/25/16	0748	
<i>[Signature]</i>	GEI	8/25/16	1000	
<i>[Signature]</i>	SPEBY	8-25-16	10:00	
<i>[Signature]</i>	SPEBY	8-25-16	11:30	
<i>[Signature]</i>	ORIE	8/25/16	1130	

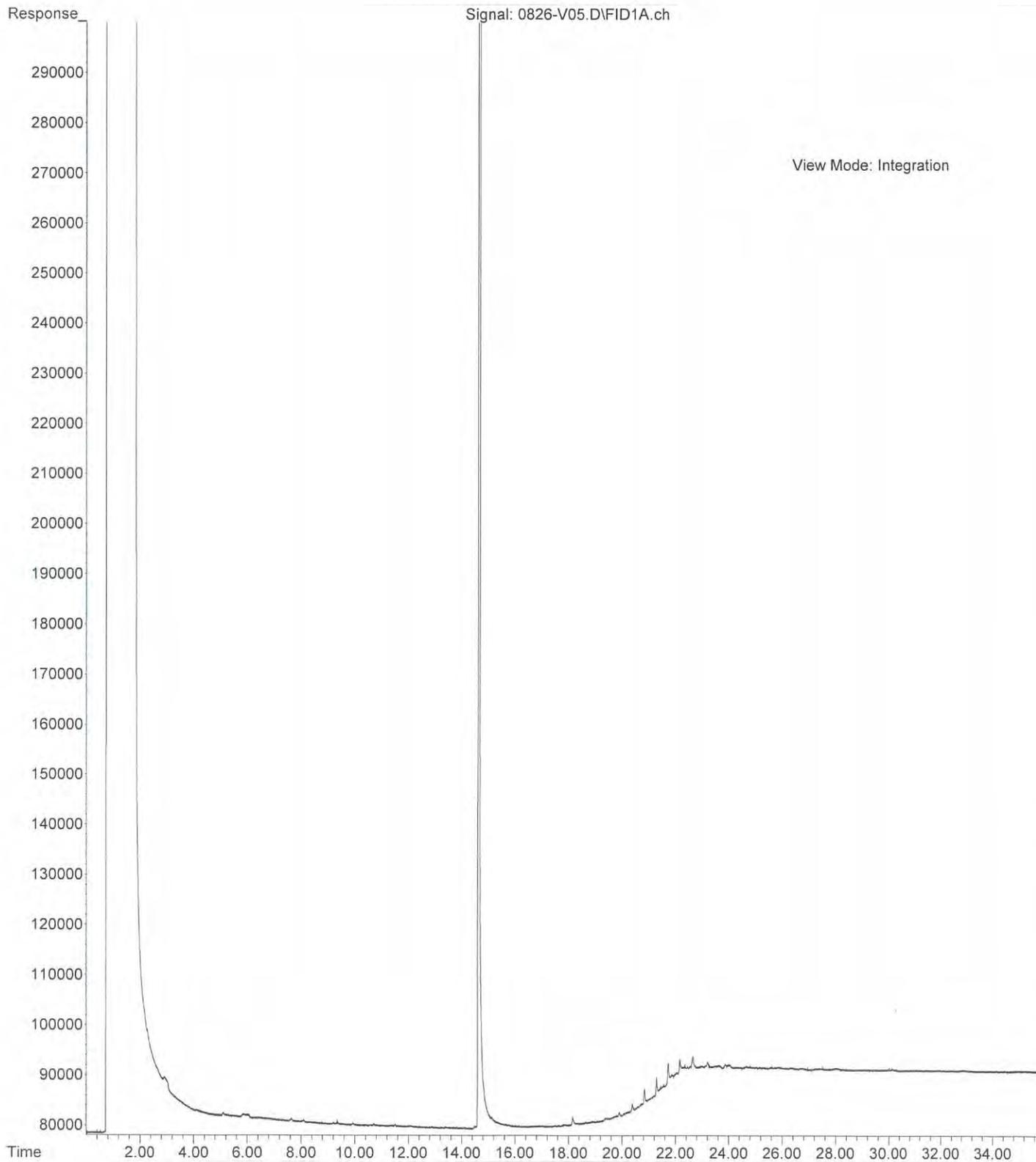
Chromatograms with final report Electronic Data Deliverables (EDDs)

Data Package: Standard Level III Level IV

File :X:\DIESELS\TERI\DATA\T160826.SEC\0826-T64.D
Operator : ZT
Acquired : 26 Aug 2016 19:59 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-324-01,02,03,04
Misc Info :
Vial Number: 64



File :X:\DIESELS\VIGO\DATA\V160826\0826-V05.D
Operator :
Acquired : 26 Aug 2016 15:29 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-324-05
Misc Info :
Vial Number: 5





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-324B

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-324B
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 24, 2016 and received by the laboratory on August 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 13, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-324B
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW11D-14-15	08-324-08	Soil	8-24-16	8-25-16	



Date of Report: September 13, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-14-15					
Laboratory ID:	08-324-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0081	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-14-15					
Laboratory ID:	08-324-08					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0064	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloromethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Iodomethane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chloroform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-9-16	9-9-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	



Date of Report: September 13, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324B
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0909S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromoform	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-9-16	9-9-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-9-16	9-9-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-324B
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0909S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0403	0.0417	0.0500	0.0500	81	83	68-126	3	15	
Benzene	0.0432	0.0453	0.0500	0.0500	86	91	70-121	5	15	
Trichloroethene	0.0475	0.0495	0.0500	0.0500	95	99	75-120	4	15	
Toluene	0.0471	0.0488	0.0500	0.0500	94	98	80-120	4	15	
Chlorobenzene	0.0479	0.0486	0.0500	0.0500	96	97	76-120	1	15	
<i>Surrogate:</i>										
Dibromofluoromethane					96	103	76-131			
Toluene-d8					98	103	80-126			
4-Bromofluorobenzene					96	98	60-146			



Date of Report: September 13, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-324B
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 9-9-16

Client ID	Lab ID	% Moisture
A11-MW11D-14-15	08-324-08	6





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)
 (TPH analysis 5 Days)
- _____ (other)

Laboratory Number: **08-324**

Company: GeoEngineers
 Project Number: 0183-109-01 TSD0
 Project Name: WWT-2016 RI
 Project Manager: Tricia DeCone
 Sampled by: TSD/RE

Lab ID Sample Identification Date Sampled Time Sampled Matrix

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	A11-MW11D-29-30	8/24/16	1325	S
12	A11-MW11D-31-32		1355	
13	A11-MW11D-34-35		1358	
14	A11-MW11D-39-40		1403	
15	A11-MW11D-44-45		1425	
16	A11-MW11D-49-50		1430	
17	A11-MW11D-54-55		1530	
18	A11-MW11D-59-60		1535	
19	TB-20160824			W

Number of Containers

Parameter	11	12	13	14	15	16	17	18	19
NWTPH-HCID									
NWTPH-Gx/BTEX									
NWTPH-Gx									
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)									
Volatiles 8260C									
Halogenated Volatiles 8260C	X	X	X	X	X	X	X	X	X
EDB EPA 8011 (Waters Only)									
Semivolatiles 8270D/SIM (with low-level PAHs)									
PAHs 8270D/SIM (low-level)									
PCBs 8082A									
Organochlorine Pesticides 8081B									
Organophosphorus Pesticides 8270D/SIM									
Chlorinated Acid Herbicides 8151A									
Total RCRA Metals									
Total MTCA Metals									
TCLP Metals									
HEM (oil and grease) 1664A									Hold
% Moisture	X	X	X	X	X	X	X	X	X

Signature: [Handwritten Signature] Company: GEI Date: 8/25/16 Time: 0945 Comments/Special Instructions: [Blank]

Received	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>[Signature]</u>	<u>GEI</u>	<u>8/25/16</u>	<u>0945</u>	
Received	<u>[Signature]</u>	<u>GEI</u>	<u>8/25/16</u>	<u>0745</u>	
Relinquished	<u>[Signature]</u>	<u>GEI</u>	<u>8/25/16</u>	<u>1000</u>	
Received	<u>[Signature]</u>	<u>SPEEDY</u>	<u>8-25-16</u>	<u>10:00</u>	
Relinquished	<u>[Signature]</u>	<u>SPEEDY</u>	<u>8-25-16</u>	<u>11:30</u>	
Received	<u>[Signature]</u>	<u>ORIE</u>	<u>8/25/16</u>	<u>1130</u>	
Reviewed/Date					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 6, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-326

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

Please note that the data for the additionally requested analysis will follow in the final report.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 25, 2016 and received by the laboratory on August 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW4S-0-1	08-326-01	Soil	8-25-16	8-25-16	
Dup1-20160825	08-326-02	Soil	8-25-16	8-25-16	
UG-MW4S-3-4	08-326-05	Soil	8-25-16	8-25-16	
UG-MW4S-5-6	08-326-07	Soil	8-25-16	8-25-16	
UG-MW4S-9-10	08-326-08	Soil	8-25-16	8-25-16	
TB-20160825	08-326-09	Water	---	8-25-16	



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-0-1					
Laboratory ID:	08-326-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	Detected	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				

Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	57	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				



Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

NWTPH-Dx



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Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0070	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-5-6					
Laboratory ID:	08-326-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-5-6					
Laboratory ID:	08-326-07					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-9-10					
Laboratory ID:	08-326-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0061	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	0.0029	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-9-10					
Laboratory ID:	08-326-08					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160825					
Laboratory ID:	08-326-09					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160825					
Laboratory ID:	08-326-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-0-1					
Laboratory ID:	08-326-01					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.0099	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.015	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.015	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.011	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.014	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	0.017	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	0.013	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	0.013	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	0.017	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	66	32 - 115				
<i>Pyrene-d10</i>	60	30 - 124				
<i>Terphenyl-d14</i>	84	30 - 117				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160825					
Laboratory ID:	08-326-02					
Naphthalene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.021	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	0.0076	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.031	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.034	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.022	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.024	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	0.026	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	0.0085	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	0.022	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	0.018	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	0.024	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>65</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
Naphthalene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.0082	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.0090	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>58</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>64</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-326-01					
Client ID:	UG-MW4S-0-1					
Arsenic	ND	11	6010C	8-30-16	8-30-16	
Cadmium	ND	0.54	6010C	8-30-16	8-30-16	
Chromium	24	0.54	6010C	8-30-16	8-30-16	
Lead	9.6	5.4	6010C	8-30-16	8-30-16	
Mercury	ND	0.27	7471B	8-30-16	8-30-16	

Lab ID:	08-326-05					
Client ID:	UG-MW4S-3-4					
Arsenic	ND	11	6010C	8-30-16	8-30-16	
Cadmium	ND	0.57	6010C	8-30-16	8-30-16	
Chromium	40	0.57	6010C	8-30-16	8-30-16	
Lead	26	5.7	6010C	8-30-16	8-30-16	
Mercury	ND	0.28	7471B	8-30-16	8-30-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



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**NWTPH-Dx
QUALITY CONTROL**



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 6, 2016
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 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0829S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0829S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0442	0.0500	0.0500	90	88	68-126	2	15	
Benzene	0.0442	0.0449	0.0500	0.0500	88	90	70-121	2	15	
Trichloroethene	0.0479	0.0437	0.0500	0.0500	96	87	75-120	9	15	
Toluene	0.0477	0.0452	0.0500	0.0500	95	90	80-120	5	15	
Chlorobenzene	0.0503	0.0460	0.0500	0.0500	101	92	76-120	9	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	101	76-131			
Toluene-d8					99	100	80-126			
4-Bromofluorobenzene					98	98	60-146			



Date of Report: September 6, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0826W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0826W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	9.43	10.0	10.0	105	94	62-132	11	20	
Benzene	10.8	9.89	10.0	10.0	108	99	75-121	9	15	
Trichloroethene	10.0	8.66	10.0	10.0	100	87	65-115	14	15	
Toluene	11.4	10.1	10.0	10.0	114	101	78-120	12	15	
Chlorobenzene	10.3	9.20	10.0	10.0	103	92	77-118	11	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	109	71-131			
<i>Toluene-d8</i>					97	95	80-127			
<i>4-Bromofluorobenzene</i>					92	93	80-125			



Date of Report: September 6, 2016
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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>62</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>30 - 117</i>				



Date of Report: September 6, 2016
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**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0829S1									
Naphthalene	0.0652	0.0652	0.0833	0.0833	78	78	61 - 112	0	15	
Acenaphthylene	0.0681	0.0683	0.0833	0.0833	82	82	65 - 116	0	15	
Acenaphthene	0.0629	0.0647	0.0833	0.0833	76	78	62 - 116	3	13	
Fluorene	0.0695	0.0697	0.0833	0.0833	83	84	60 - 115	0	15	
Phenanthrene	0.0654	0.0638	0.0833	0.0833	79	77	54 - 114	2	15	
Anthracene	0.0765	0.0752	0.0833	0.0833	92	90	70 - 140	2	15	
Fluoranthene	0.0674	0.0666	0.0833	0.0833	81	80	60 - 118	1	15	
Pyrene	0.0673	0.0667	0.0833	0.0833	81	80	65 - 115	1	15	
Benzo[a]anthracene	0.0774	0.0754	0.0833	0.0833	93	91	59 - 129	3	15	
Chrysene	0.0652	0.0654	0.0833	0.0833	78	79	60 - 122	0	15	
Benzo[b]fluoranthene	0.0675	0.0653	0.0833	0.0833	81	78	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0625	0.0646	0.0833	0.0833	75	78	58 - 124	3	16	
Benzo[a]pyrene	0.0729	0.0724	0.0833	0.0833	88	87	62 - 127	1	15	
Indeno(1,2,3-c,d)pyrene	0.0678	0.0684	0.0833	0.0833	81	82	60 - 120	1	15	
Dibenz[a,h]anthracene	0.0641	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo(g,h,i)perylene	0.0669	0.0682	0.0833	0.0833	80	82	63 - 117	2	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					66	65	32 - 115			
Pyrene-d10					73	70	30 - 124			
Terphenyl-d14					82	78	30 - 117			



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Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0



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Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-363-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	31.5	33.1	5	0.50	
Lead	62.1	58.8	5	5.0	



Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-326-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: September 6, 2016
 Samples Submitted: August 25, 2016
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 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-363-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	99.9	100	99.4	99	1	
Cadmium	50.0	46.5	93	45.8	92	2	
Chromium	100	119	87	118	86	1	
Lead	250	302	96	276	86	9	



Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-326-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.425	85	0.425	85	0	



Date of Report: September 6, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-26&29-16

Client ID	Lab ID	% Moisture
UG-MW4S-0-1	08-326-01	7
Dup1-20160825	08-326-02	6
UG-MW4S-3-4	08-326-05	12
UG-MW4S-5-6	08-326-07	7
UG-MW4S-9-10	08-326-08	7





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 8, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-326

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 25, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 25, 2016 and received by the laboratory on August 25, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW4S-0-1	08-326-01	Soil	8-25-16	8-25-16	
Dup1-20160825	08-326-02	Soil	8-25-16	8-25-16	
UG-MW4S-3-4	08-326-05	Soil	8-25-16	8-25-16	
UG-MW4S-5-6	08-326-07	Soil	8-25-16	8-25-16	
UG-MW4S-9-10	08-326-08	Soil	8-25-16	8-25-16	
TB-20160825	08-326-09	Water	---	8-25-16	



Date of Report: September 8, 2016
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NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-0-1					
Laboratory ID:	08-326-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	Detected	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				

Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
Gasoline Range Organics	ND	23	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	57	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				



Date of Report: September 8, 2016
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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-0-1					
Laboratory ID:	08-326-01					
Diesel Range Organics	ND	31	NWTPH-Dx	9-6-16	9-8-16	U1
Lube Oil Range Organics	290	54	NWTPH-Dx	9-6-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
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 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0070	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-5-6					
Laboratory ID:	08-326-07					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-5-6					
Laboratory ID:	08-326-07					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



Date of Report: September 8, 2016
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-9-10					
Laboratory ID:	08-326-08					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0061	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	0.0029	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-9-10					
Laboratory ID:	08-326-08					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160825					
Laboratory ID:	08-326-09					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160825					
Laboratory ID:	08-326-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-0-1					
Laboratory ID:	08-326-01					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.0099	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.015	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.015	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.011	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.014	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	0.017	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	0.013	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	0.013	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	0.017	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	66	32 - 115				
<i>Pyrene-d10</i>	60	30 - 124				
<i>Terphenyl-d14</i>	84	30 - 117				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Dup1-20160825					
Laboratory ID:	08-326-02					
Naphthalene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.021	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	0.0076	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.031	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.034	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.022	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.024	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	0.026	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	0.0085	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	0.022	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	0.018	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	0.024	0.0071	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>65</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>91</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-3-4					
Laboratory ID:	08-326-05					
Naphthalene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.0082	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.0090	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	ND	0.0076	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>53</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>58</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>64</i>	<i>30 - 117</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-326-01					
Client ID:	UG-MW4S-0-1					
Arsenic	ND	11	6010C	8-30-16	8-30-16	
Cadmium	ND	0.54	6010C	8-30-16	8-30-16	
Chromium	24	0.54	6010C	8-30-16	8-30-16	
Lead	9.6	5.4	6010C	8-30-16	8-30-16	
Mercury	ND	0.27	7471B	8-30-16	8-30-16	

Lab ID:	08-326-05					
Client ID:	UG-MW4S-3-4					
Arsenic	ND	11	6010C	8-30-16	8-30-16	
Cadmium	ND	0.57	6010C	8-30-16	8-30-16	
Chromium	40	0.57	6010C	8-30-16	8-30-16	
Lead	26	5.7	6010C	8-30-16	8-30-16	
Mercury	ND	0.28	7471B	8-30-16	8-30-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826S1					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-26-16	8-26-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-26-16	8-26-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0906S1					
Diesel Range Organics	ND	25	NWTPH-Dx	9-6-16	9-6-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-6-16	9-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>127</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	08-326-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1
Lube Oil Range Organics	270	211	NA	NA	NA	25	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				89	112	50-150		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0829S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0829S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0442	0.0500	0.0500	90	88	68-126	2	15	
Benzene	0.0442	0.0449	0.0500	0.0500	88	90	70-121	2	15	
Trichloroethene	0.0479	0.0437	0.0500	0.0500	96	87	75-120	9	15	
Toluene	0.0477	0.0452	0.0500	0.0500	95	90	80-120	5	15	
Chlorobenzene	0.0503	0.0460	0.0500	0.0500	101	92	76-120	9	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	101	76-131			
<i>Toluene-d8</i>					99	100	80-126			
<i>4-Bromofluorobenzene</i>					98	98	60-146			



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0826W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	8-26-16	8-26-16	
Chloromethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromomethane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
Chloroethane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Iodomethane	ND	1.8	EPA 8260C	8-26-16	8-26-16	
Methylene Chloride	ND	3.0	EPA 8260C	8-26-16	8-26-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chloroform	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Trichloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromomethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
2-Chloroethyl Vinyl Ether	ND	2.4	EPA 8260C	8-26-16	8-26-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-26-16	8-26-16	



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0826W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Bromoform	ND	1.0	EPA 8260C	8-26-16	8-26-16	
Bromobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichloropropane	ND	0.27	EPA 8260C	8-26-16	8-26-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-26-16	8-26-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-26-16	8-26-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0826W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	9.43	10.0	10.0	105	94	62-132	11	20	
Benzene	10.8	9.89	10.0	10.0	108	99	75-121	9	15	
Trichloroethene	10.0	8.66	10.0	10.0	100	87	65-115	14	15	
Toluene	11.4	10.1	10.0	10.0	114	101	78-120	12	15	
Chlorobenzene	10.3	9.20	10.0	10.0	103	92	77-118	11	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	109	71-131			
<i>Toluene-d8</i>					97	95	80-127			
<i>4-Bromofluorobenzene</i>					92	93	80-125			



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>62</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>30 - 117</i>				



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0829S1									
Naphthalene	0.0652	0.0652	0.0833	0.0833	78	78	61 - 112	0	15	
Acenaphthylene	0.0681	0.0683	0.0833	0.0833	82	82	65 - 116	0	15	
Acenaphthene	0.0629	0.0647	0.0833	0.0833	76	78	62 - 116	3	13	
Fluorene	0.0695	0.0697	0.0833	0.0833	83	84	60 - 115	0	15	
Phenanthrene	0.0654	0.0638	0.0833	0.0833	79	77	54 - 114	2	15	
Anthracene	0.0765	0.0752	0.0833	0.0833	92	90	70 - 140	2	15	
Fluoranthene	0.0674	0.0666	0.0833	0.0833	81	80	60 - 118	1	15	
Pyrene	0.0673	0.0667	0.0833	0.0833	81	80	65 - 115	1	15	
Benzo[a]anthracene	0.0774	0.0754	0.0833	0.0833	93	91	59 - 129	3	15	
Chrysene	0.0652	0.0654	0.0833	0.0833	78	79	60 - 122	0	15	
Benzo[b]fluoranthene	0.0675	0.0653	0.0833	0.0833	81	78	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0625	0.0646	0.0833	0.0833	75	78	58 - 124	3	16	
Benzo[a]pyrene	0.0729	0.0724	0.0833	0.0833	88	87	62 - 127	1	15	
Indeno(1,2,3-c,d)pyrene	0.0678	0.0684	0.0833	0.0833	81	82	60 - 120	1	15	
Dibenz[a,h]anthracene	0.0641	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0669	0.0682	0.0833	0.0833	80	82	63 - 117	2	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					66	65	32 - 115			
Pyrene-d10					73	70	30 - 124			
Terphenyl-d14					82	78	30 - 117			



Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0



Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-30-16
Date Analyzed: 8-30-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0830S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-363-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Cadmium	ND	ND	NA	0.50	
Chromium	31.5	33.1	5	0.50	
Lead	62.1	58.8	5	5.0	



Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-326-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: September 8, 2016
 Samples Submitted: August 25, 2016
 Laboratory Reference: 1608-326
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-363-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	99.9	100	99.4	99	1	
Cadmium	50.0	46.5	93	45.8	92	2	
Chromium	100	119	87	118	86	1	
Lead	250	302	96	276	86	9	



Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 8-30-16

Date Analyzed: 8-30-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-326-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.425	85	0.425	85	0	



Date of Report: September 8, 2016
Samples Submitted: August 25, 2016
Laboratory Reference: 1608-326
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-26&29-16

Client ID	Lab ID	% Moisture
UG-MW4S-0-1	08-326-01	7
Dup1-20160825	08-326-02	6
UG-MW4S-3-4	08-326-05	12
UG-MW4S-5-6	08-326-07	7
UG-MW4S-9-10	08-326-08	7



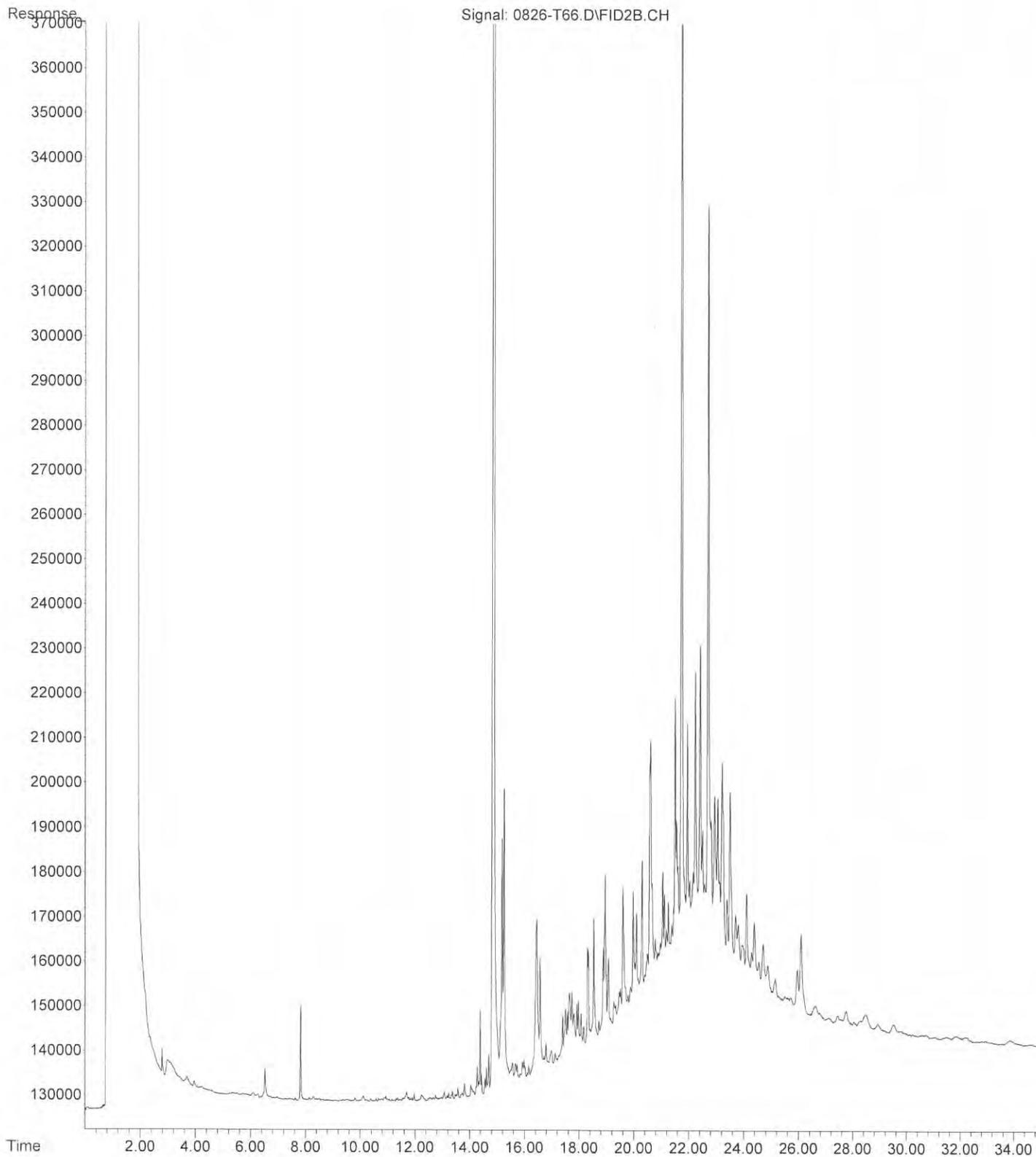


Data Qualifiers and Abbreviations

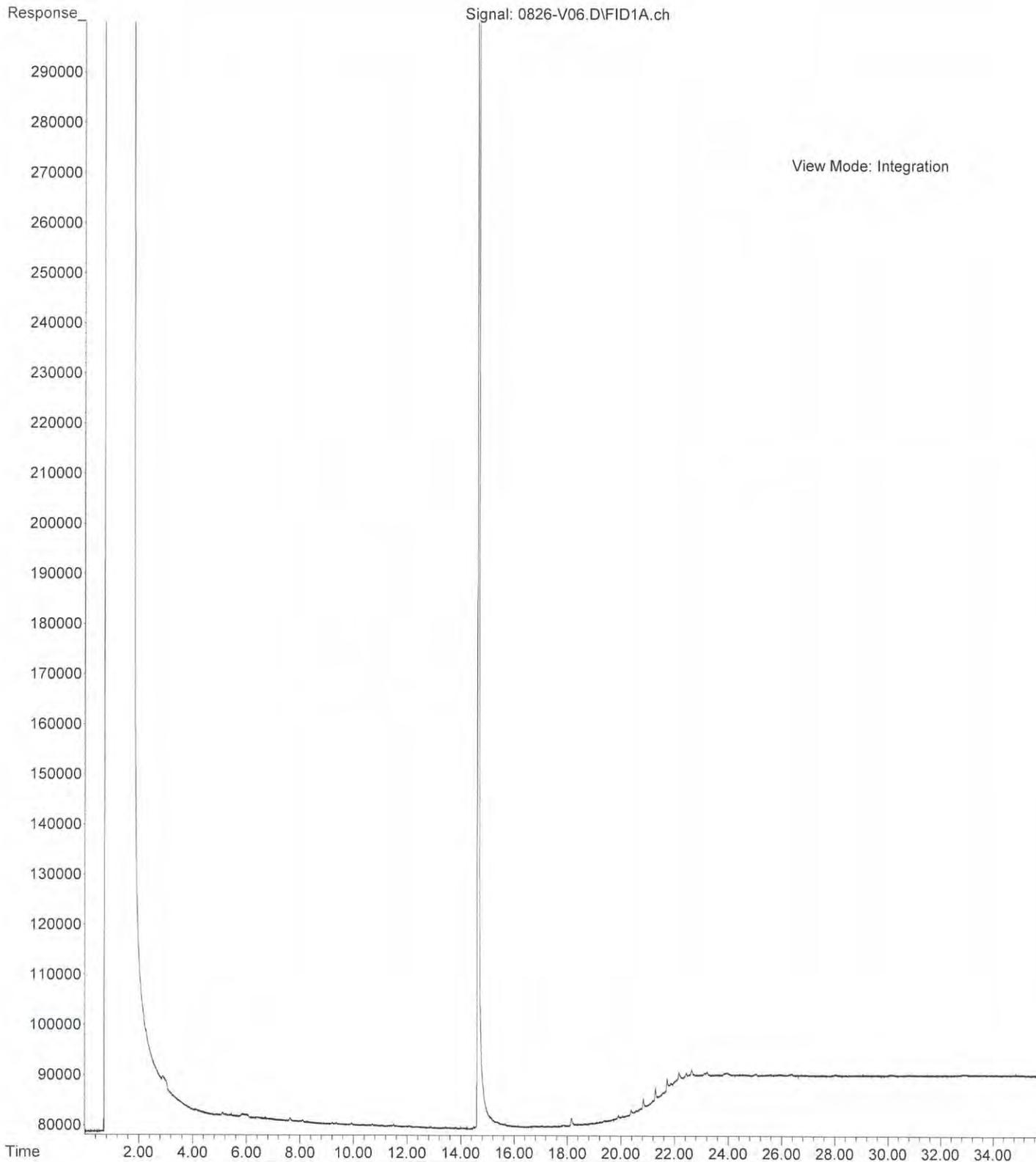
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



File :X:\DIESELS\TERI\DATA\T160826.SEC\0826-T66.D
Operator : ZT
Acquired : 26 Aug 2016 21:26 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 08-326-01
Misc Info :
Vial Number: 66



File :X:\DIESELS\VIGO\DATA\V160826\0826-V06.D
Operator :
Acquired : 26 Aug 2016 16:11 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-326-05
Misc Info :
Vial Number: 6





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 6, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-352

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 6, 2016
Samples Submitted: August 26, 2016
Laboratory Reference: 1608-352
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 26, 2016 and received by the laboratory on August 26, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 6, 2016
 Samples Submitted: August 26, 2016
 Laboratory Reference: 1608-352
 Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW10D-1-2	08-352-01	Soil	8-26-16	8-26-16	
A11-MW10D-2-3	08-352-02	Soil	8-26-16	8-26-16	
A11-MW10D-4-5	08-352-03	Soil	8-26-16	8-26-16	
A11-MW10D-5-6	08-352-04	Soil	8-26-16	8-26-16	
A11-MW10D-8-9	08-352-05	Soil	8-26-16	8-26-16	
A11-MW10D-12-13	08-352-06	Soil	8-26-16	8-26-16	
A11-MW10D-18-19	08-352-07	Soil	8-26-16	8-26-16	
A11-MW10D-20-21	08-352-08	Soil	8-26-16	8-26-16	
A11-MW10D-24-25	08-352-09	Soil	8-26-16	8-26-16	
A11-MW10D-28-29	08-352-10	Soil	8-26-16	8-26-16	
A11-MW10D-31-32	08-352-11	Soil	8-26-16	8-26-16	
A11-MW10D-35-36	08-352-12	Soil	8-26-16	8-26-16	
A11-MW10D-39-40	08-352-13	Soil	8-26-16	8-26-16	
A11-MW10S-1-2	08-352-14	Soil	8-26-16	8-26-16	
TB-20160826	08-352-18	Water	---	8-26-16	



Date of Report: September 6, 2016
 Samples Submitted: August 26, 2016
 Laboratory Reference: 1608-352
 Project: 0183-109-01-T500

NWTPH-HCID

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-1-2					
Laboratory ID:	08-352-01					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-30-16	8-31-16	
Diesel Range Organics	ND	56	NWTPH-HCID	8-30-16	8-31-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-30-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	116	50-150				
Client ID:	A11-MW10D-2-3					
Laboratory ID:	08-352-02					
Gasoline Range Organics	ND	24	NWTPH-HCID	8-30-16	8-31-16	
Diesel Range Organics	ND	59	NWTPH-HCID	8-30-16	8-31-16	
Lube Oil Range Organics	ND	120	NWTPH-HCID	8-30-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	113	50-150				
Client ID:	A11-MW10S-1-2					
Laboratory ID:	08-352-14					
Gasoline Range Organics	ND	22	NWTPH-HCID	8-30-16	8-31-16	
Diesel Range Organics	ND	54	NWTPH-HCID	8-30-16	8-31-16	
Lube Oil Range Organics	ND	110	NWTPH-HCID	8-30-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	109	50-150				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-1-2					
Laboratory ID:	08-352-01					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0059	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0045	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0045	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0045	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-1-2					
Laboratory ID:	08-352-01					
1,1,2-Trichloroethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.00091	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-4-5					
Laboratory ID:	08-352-03					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0089	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0069	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0069	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0069	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0069	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-4-5					
Laboratory ID:	08-352-03					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0069	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0069	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-5-6					
Laboratory ID:	08-352-04					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0073	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-5-6					
Laboratory ID:	08-352-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-8-9					
Laboratory ID:	08-352-05					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0088	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-8-9					
Laboratory ID:	08-352-05					
1,1,2-Trichloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-18-19					
Laboratory ID:	08-352-07					
Dichlorodifluoromethane	ND	0.0018	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0083	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0063	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0063	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0063	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-18-19					
Laboratory ID:	08-352-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-28-29					
Laboratory ID:	08-352-10					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-29-16	8-30-16	
Chloromethane	ND	0.0070	EPA 8260C	8-29-16	8-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chloroethane	ND	0.0053	EPA 8260C	8-29-16	8-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Iodomethane	ND	0.0053	EPA 8260C	8-29-16	8-30-16	
Methylene Chloride	ND	0.0053	EPA 8260C	8-29-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	8-29-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-28-29					
Laboratory ID:	08-352-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	8-29-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-31-32					
Laboratory ID:	08-352-11					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-29-16	8-30-16	
Chloromethane	ND	0.0070	EPA 8260C	8-29-16	8-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chloroethane	ND	0.0054	EPA 8260C	8-29-16	8-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Iodomethane	ND	0.0054	EPA 8260C	8-29-16	8-30-16	
Methylene Chloride	ND	0.0054	EPA 8260C	8-29-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	8-29-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-31-32					
Laboratory ID:	08-352-11					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	8-29-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-35-36					
Laboratory ID:	08-352-12					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	8-29-16	8-30-16	
Chloromethane	ND	0.0068	EPA 8260C	8-29-16	8-30-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Bromomethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Chloroethane	ND	0.0052	EPA 8260C	8-29-16	8-30-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Iodomethane	ND	0.0052	EPA 8260C	8-29-16	8-30-16	
Methylene Chloride	ND	0.0052	EPA 8260C	8-29-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Chloroform	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	8-29-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-35-36					
Laboratory ID:	08-352-12					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Bromoform	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	8-29-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-39-40					
Laboratory ID:	08-352-13					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	8-29-16	8-30-16	
Chloromethane	ND	0.0073	EPA 8260C	8-29-16	8-30-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromomethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chloroethane	ND	0.0056	EPA 8260C	8-29-16	8-30-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Iodomethane	ND	0.0056	EPA 8260C	8-29-16	8-30-16	
Methylene Chloride	ND	0.0056	EPA 8260C	8-29-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chloroform	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Trichloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Dibromomethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	8-29-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-39-40					
Laboratory ID:	08-352-13					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Chlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromoform	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Bromobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	8-29-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	8-29-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>60-146</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160826					
Laboratory ID:	08-352-18					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160826					
Laboratory ID:	08-352-18					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-125</i>				



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 Project: 0183-109-01-T500

PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-1-2					
Laboratory ID:	08-352-01					
Naphthalene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.017	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.027	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.035	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.017	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.017	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	0.017	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	0.016	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	0.011	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	0.015	0.0074	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	63	32 - 115				
<i>Pyrene-d10</i>	63	30 - 124				
<i>Terphenyl-d14</i>	85	30 - 117				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-2-3					
Laboratory ID:	08-352-02					
Naphthalene	0.050	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	0.019	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	0.013	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	0.012	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	0.013	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	0.011	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.077	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	0.020	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.093	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.11	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.043	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.046	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	0.042	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	0.014	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	0.037	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	0.027	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	0.038	0.0079	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>57</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>79</i>	<i>30 - 117</i>				



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PAHs EPA 8270D/SIM

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10S-1-2					
Laboratory ID:	08-352-14					
Naphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Fluorene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Phenanthrene	0.011	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Anthracene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Fluoranthene	0.015	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Pyrene	0.017	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]anthracene	0.0089	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Chrysene	0.0083	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	8-29-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	66	32 - 115				
Pyrene-d10	68	30 - 124				
Terphenyl-d14	92	30 - 117				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-352-01					
Client ID:	A11-MW10D-1-2					
Arsenic	ND	11	6010C	8-31-16	8-31-16	
Barium	66	2.8	6010C	8-31-16	8-31-16	
Cadmium	ND	0.56	6010C	8-31-16	8-31-16	
Chromium	32	0.56	6010C	8-31-16	8-31-16	
Lead	9.2	5.6	6010C	8-31-16	8-31-16	
Mercury	ND	0.28	7471B	9-2-16	9-2-16	
Selenium	ND	11	6010C	8-31-16	8-31-16	
Silver	ND	1.1	6010C	8-31-16	8-31-16	

Lab ID:	08-352-02					
Client ID:	A11-MW10D-2-3					
Arsenic	ND	12	6010C	8-31-16	8-31-16	
Barium	95	3.0	6010C	8-31-16	8-31-16	
Cadmium	ND	0.59	6010C	8-31-16	8-31-16	
Chromium	42	0.59	6010C	8-31-16	8-31-16	
Lead	53	5.9	6010C	8-31-16	8-31-16	
Mercury	ND	0.30	7471B	9-2-16	9-2-16	
Selenium	ND	12	6010C	8-31-16	8-31-16	
Silver	ND	1.2	6010C	8-31-16	8-31-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-352-06					
Client ID:	A11-MW10D-12-13					
Arsenic	ND	13	6010C	8-31-16	8-31-16	
Barium	120	3.2	6010C	8-31-16	8-31-16	
Cadmium	ND	0.64	6010C	8-31-16	8-31-16	
Chromium	49	0.64	6010C	8-31-16	8-31-16	
Lead	ND	6.4	6010C	8-31-16	8-31-16	
Mercury	ND	0.32	7471B	9-2-16	9-2-16	
Selenium	ND	13	6010C	8-31-16	8-31-16	
Silver	ND	1.3	6010C	8-31-16	8-31-16	

Lab ID:	08-352-08					
Client ID:	A11-MW10D-20-21					
Arsenic	ND	11	6010C	8-31-16	8-31-16	
Barium	46	2.7	6010C	8-31-16	8-31-16	
Cadmium	ND	0.55	6010C	8-31-16	8-31-16	
Chromium	23	0.55	6010C	8-31-16	8-31-16	
Lead	ND	5.5	6010C	8-31-16	8-31-16	
Mercury	ND	0.27	7471B	9-2-16	9-2-16	
Selenium	ND	11	6010C	8-31-16	8-31-16	
Silver	ND	1.1	6010C	8-31-16	8-31-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	08-352-09					
Client ID:	A11-MW10D-24-25					
Arsenic	ND	11	6010C	8-31-16	8-31-16	
Barium	50	2.6	6010C	8-31-16	8-31-16	
Cadmium	ND	0.53	6010C	8-31-16	8-31-16	
Chromium	21	0.53	6010C	8-31-16	8-31-16	
Lead	ND	5.3	6010C	8-31-16	8-31-16	
Mercury	ND	0.26	7471B	9-2-16	9-2-16	
Selenium	ND	11	6010C	8-31-16	8-31-16	
Silver	ND	1.1	6010C	8-31-16	8-31-16	

Lab ID:	08-352-14					
Client ID:	A11-MW10S-1-2					
Arsenic	ND	11	6010C	8-31-16	8-31-16	
Barium	57	2.7	6010C	8-31-16	8-31-16	
Cadmium	ND	0.54	6010C	8-31-16	8-31-16	
Chromium	24	0.54	6010C	8-31-16	8-31-16	
Lead	6.5	5.4	6010C	8-31-16	8-31-16	
Mercury	ND	0.27	7471B	9-2-16	9-2-16	
Selenium	ND	11	6010C	8-31-16	8-31-16	
Silver	ND	1.1	6010C	8-31-16	8-31-16	



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**NWTPH-HCID
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830S3					
Gasoline Range Organics	ND	20	NWTPH-HCID	8-30-16	8-31-16	
Diesel Range Organics	ND	50	NWTPH-HCID	8-30-16	8-31-16	
Lube Oil Range Organics	ND	100	NWTPH-HCID	8-30-16	8-31-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>94</i>	<i>50-150</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	8-29-16	8-29-16	
Chloromethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Iodomethane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
Methylene Chloride	ND	0.0068	EPA 8260C	8-29-16	8-29-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chloroform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Trichloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromomethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0829S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Chlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromoform	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Bromobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	8-29-16	8-29-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	8-29-16	8-29-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0829S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0451	0.0442	0.0500	0.0500	90	88	68-126	2	15	
Benzene	0.0442	0.0449	0.0500	0.0500	88	90	70-121	2	15	
Trichloroethene	0.0479	0.0437	0.0500	0.0500	96	87	75-120	9	15	
Toluene	0.0477	0.0452	0.0500	0.0500	95	90	80-120	5	15	
Chlorobenzene	0.0503	0.0460	0.0500	0.0500	101	92	76-120	9	15	
<i>Surrogate:</i>										
Dibromofluoromethane					98	101	76-131			
Toluene-d8					99	100	80-126			
4-Bromofluorobenzene					98	98	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0830W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloromethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Iodomethane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chloroform	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Trichloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromomethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	8-30-16	8-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	8-30-16	8-30-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0830W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Bromoform	ND	1.0	EPA 8260C	8-30-16	8-30-16	
Bromobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	8-30-16	8-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	8-30-16	8-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	8-30-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.39	10.2	10.0	10.0	94	102	62-132	8	20	
Benzene	9.59	10.6	10.0	10.0	96	106	75-121	10	15	
Trichloroethene	9.04	9.06	10.0	10.0	90	91	65-115	0	15	
Toluene	10.2	10.4	10.0	10.0	102	104	78-120	2	15	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	77-118	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					92	102	71-131			
<i>Toluene-d8</i>					97	99	80-127			
<i>4-Bromofluorobenzene</i>					91	93	80-125			



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**PAHs EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0829S1					
Naphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Fluorene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Chrysene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Indeno(1,2,3-c,d)pyrene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	8-29-16	8-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>62</i>	<i>32 - 115</i>				
<i>Pyrene-d10</i>	<i>67</i>	<i>30 - 124</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>30 - 117</i>				



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**PAHs EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0829S1									
Naphthalene	0.0652	0.0652	0.0833	0.0833	78	78	61 - 112	0	15	
Acenaphthylene	0.0681	0.0683	0.0833	0.0833	82	82	65 - 116	0	15	
Acenaphthene	0.0629	0.0647	0.0833	0.0833	76	78	62 - 116	3	13	
Fluorene	0.0695	0.0697	0.0833	0.0833	83	84	60 - 115	0	15	
Phenanthrene	0.0654	0.0638	0.0833	0.0833	79	77	54 - 114	2	15	
Anthracene	0.0765	0.0752	0.0833	0.0833	92	90	70 - 140	2	15	
Fluoranthene	0.0674	0.0666	0.0833	0.0833	81	80	60 - 118	1	15	
Pyrene	0.0673	0.0667	0.0833	0.0833	81	80	65 - 115	1	15	
Benzo[a]anthracene	0.0774	0.0754	0.0833	0.0833	93	91	59 - 129	3	15	
Chrysene	0.0652	0.0654	0.0833	0.0833	78	79	60 - 122	0	15	
Benzo[b]fluoranthene	0.0675	0.0653	0.0833	0.0833	81	78	53 - 124	3	17	
Benzo(j,k)fluoranthene	0.0625	0.0646	0.0833	0.0833	75	78	58 - 124	3	16	
Benzo[a]pyrene	0.0729	0.0724	0.0833	0.0833	88	87	62 - 127	1	15	
Indeno(1,2,3-c,d)pyrene	0.0678	0.0684	0.0833	0.0833	81	82	60 - 120	1	15	
Dibenz[a,h]anthracene	0.0641	0.0658	0.0833	0.0833	77	79	60 - 117	3	15	
Benzo[g,h,i]perylene	0.0669	0.0682	0.0833	0.0833	80	82	63 - 117	2	15	
<i>Surrogate:</i>										
2-Fluorobiphenyl					66	65	32 - 115			
Pyrene-d10					73	70	30 - 124			
Terphenyl-d14					82	78	30 - 117			



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Laboratory Reference: 1608-352
Project: 0183-109-01-T500

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 8-31-16
Date Analyzed: 8-31-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0831SM3

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



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Laboratory Reference: 1608-352
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 9-2-16
Date Analyzed: 9-2-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0902S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: September 6, 2016
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 Laboratory Reference: 1608-352
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 8-31-16

Date Analyzed: 8-31-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-328-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	37.0	37.2	1	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	32.6	31.4	4	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: September 6, 2016
Samples Submitted: August 26, 2016
Laboratory Reference: 1608-352
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 9-2-16

Date Analyzed: 9-2-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-352-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: September 6, 2016
 Samples Submitted: August 26, 2016
 Laboratory Reference: 1608-352
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 8-31-16

Date Analyzed: 8-31-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-328-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	102	102	101	101	1	
Barium	100	139	102	143	106	3	
Cadmium	50.0	46.4	93	46.2	92	0	
Chromium	100	119	87	120	88	1	
Lead	250	237	95	238	95	0	
Selenium	100	101	101	102.0	102	1	
Silver	25.0	22.9	92	22.4	90	2	



Date of Report: September 6, 2016
Samples Submitted: August 26, 2016
Laboratory Reference: 1608-352
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 9-2-16

Date Analyzed: 9-2-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 08-352-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.503	101	0.527	105	5	



Date of Report: September 6, 2016
Samples Submitted: August 26, 2016
Laboratory Reference: 1608-352
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 8-29&31-16

Client ID	Lab ID	% Moisture
A11-MW10D-1-2	08-352-01	10
A11-MW10D-2-3	08-352-02	16
A11-MW10D-4-5	08-352-03	12
A11-MW10D-5-6	08-352-04	18
A11-MW10D-8-9	08-352-05	17
A11-MW10D-12-13	08-352-06	21
A11-MW10D-18-19	08-352-07	14
A11-MW10D-20-21	08-352-08	8
A11-MW10D-24-25	08-352-09	5
A11-MW10D-28-29	08-352-10	7
A11-MW10D-31-32	08-352-11	17
A11-MW10D-35-36	08-352-12	16
A11-MW10D-39-40	08-352-13	22
A11-MW10S-1-2	08-352-14	7



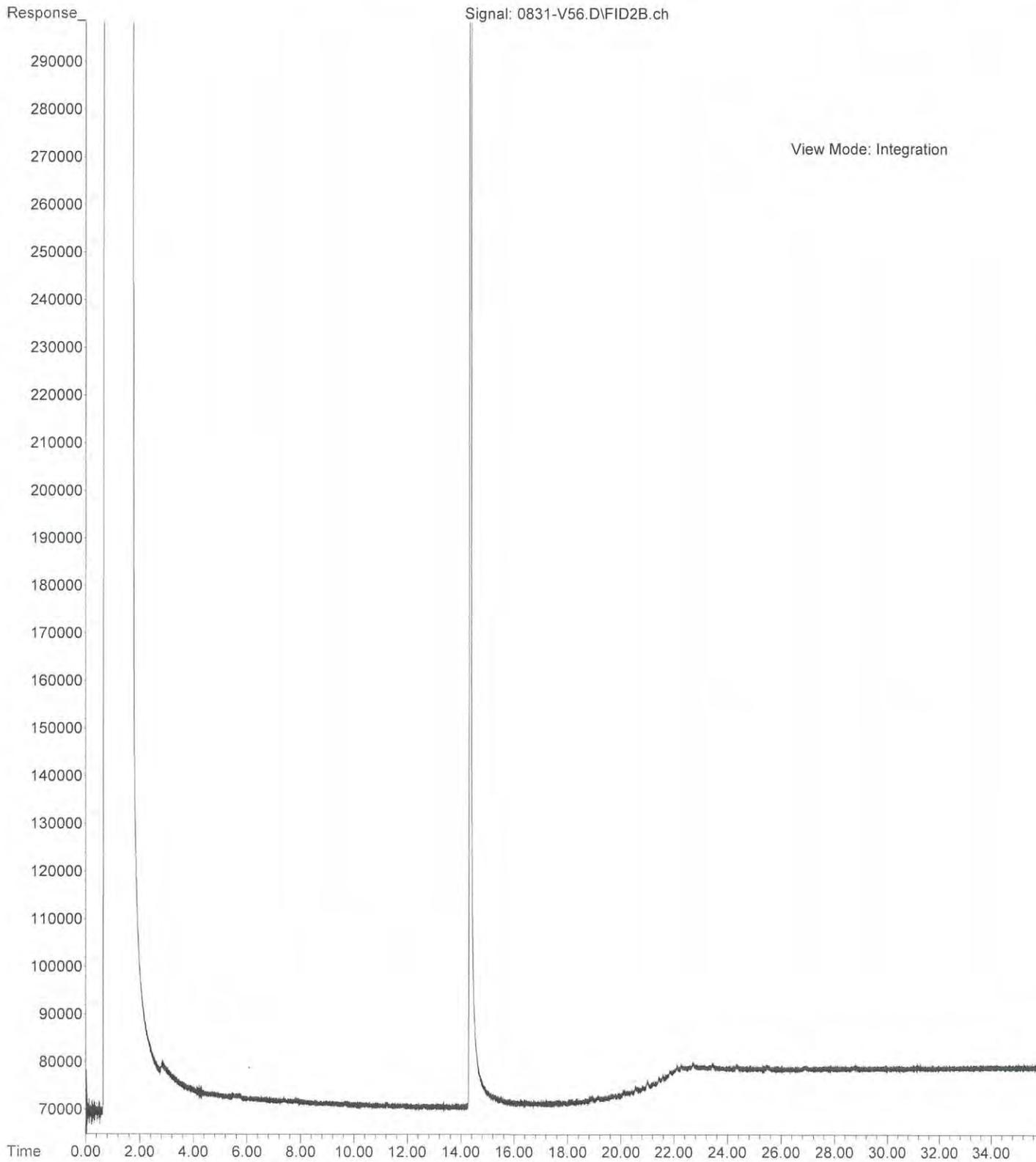


Data Qualifiers and Abbreviations

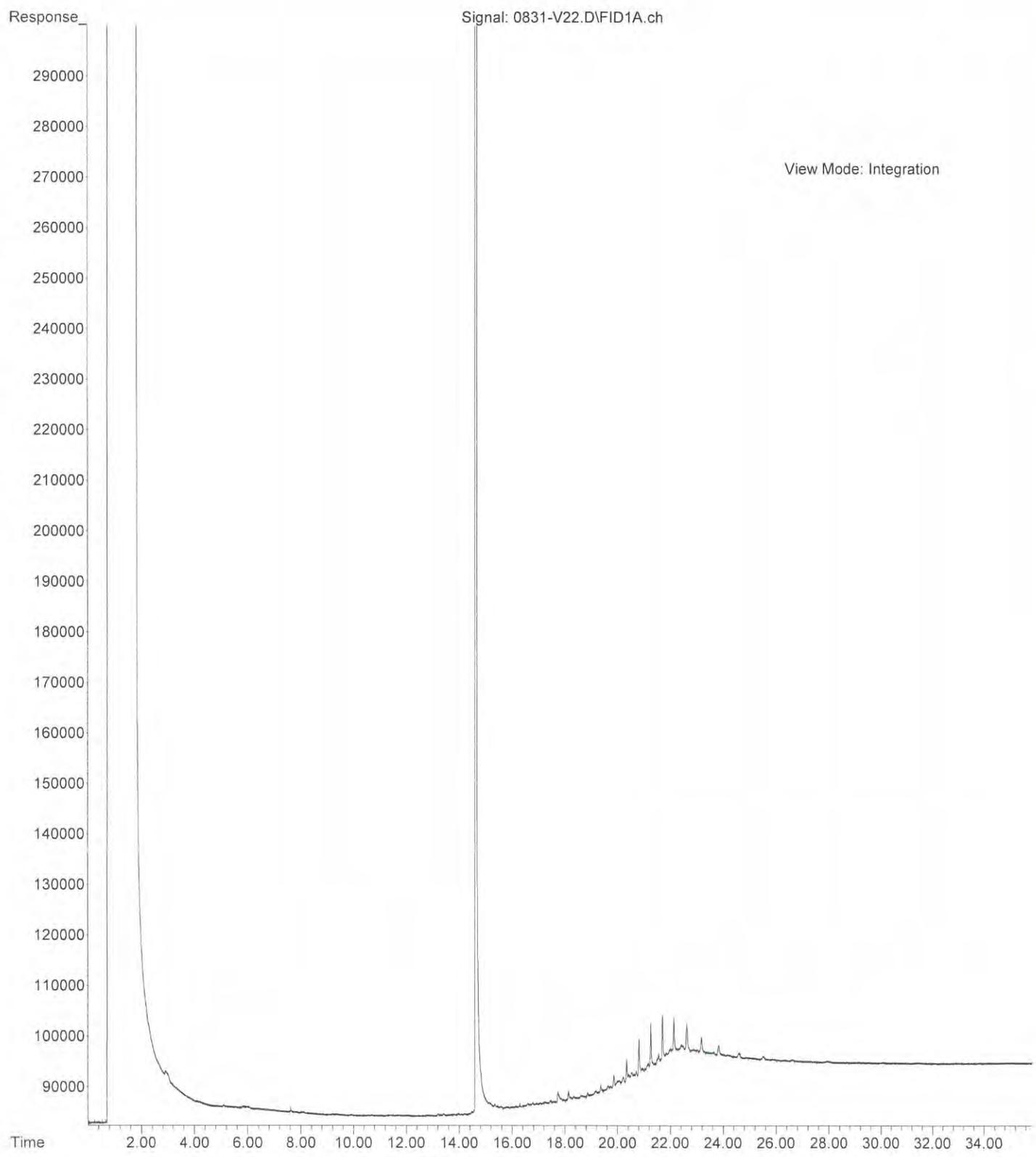
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



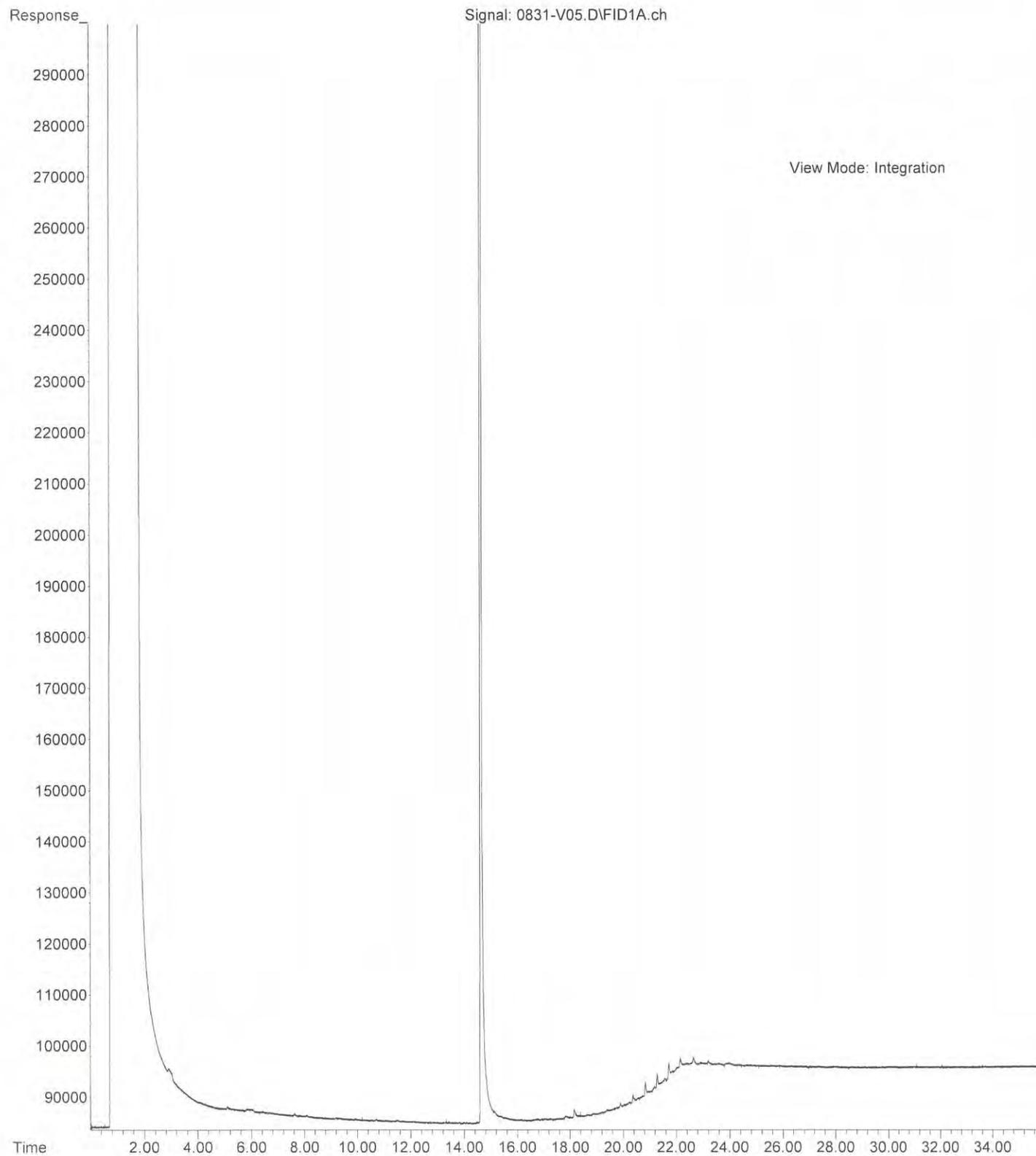
File :X:\DIESELS\VIGO\DATA\V160831.SEC\0831-V56.D
Operator :
Acquired : 31 Aug 2016 12:30 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-352-01 HC
Misc Info :
Vial Number: 56



File : X:\DIESELS\VIGO\DATA\V160831\0831-V22.D
Operator :
Acquired : 31 Aug 2016 23:38 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-352-02 HC
Misc Info :
Vial Number: 22



File : X:\DIESELS\VIGO\DATA\V160831\0831-V05.D
Operator :
Acquired : 31 Aug 2016 11:49 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 08-352-14 HC
Misc Info :
Vial Number: 5





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-377

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 30, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2016
Samples Submitted: August 30, 2016
Laboratory Reference: 1608-377
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 29, 2016 and received by the laboratory on August 30, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 13, 2016
Samples Submitted: August 30, 2016
Laboratory Reference: 1608-377
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW12D-5-6	08-377-02	Soil	8-29-16	8-30-16	
A11-MW12D-6-7	08-377-03	Soil	8-29-16	8-30-16	
A11-MW12D-12-13	08-377-04	Soil	8-29-16	8-30-16	
A11-MW12D-15-16	08-377-05	Soil	8-29-16	8-30-16	
A11-MW12D-25-26	08-377-07	Soil	8-29-16	8-30-16	
A11-MW12D-29-30	08-377-09	Soil	8-29-16	8-30-16	
A11-MW12D-35-36	08-377-10	Soil	8-29-16	8-30-16	
A11-MW12D-39-40	08-377-11	Soil	8-29-16	8-30-16	
A11-MW12D-44-45	08-377-12	Soil	8-29-16	8-30-16	
A11-MW12D-49-50	08-377-13	Soil	8-29-16	8-30-16	
TB-20160829	08-377-14	Water	---	8-30-16	



Date of Report: September 13, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-377
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-5-6					
Laboratory ID:	08-377-02					
Dichlorodifluoromethane	ND	0.0021	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0052	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0052	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0052	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0052	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 13, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-377
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-5-6					
Laboratory ID:	08-377-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-377
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-6-7					
Laboratory ID:	08-377-03					
Dichlorodifluoromethane	ND	0.0024	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0078	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 13, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-377
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-6-7					
Laboratory ID:	08-377-03					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0061	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-377
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-12-13					
Laboratory ID:	08-377-04					
Dichlorodifluoromethane	ND	0.0022	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 13, 2016
 Samples Submitted: August 30, 2016
 Laboratory Reference: 1608-377
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-12-13					
Laboratory ID:	08-377-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-15-16					
Laboratory ID:	08-377-05					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-15-16					
Laboratory ID:	08-377-05					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-25-26					
Laboratory ID:	08-377-07					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-25-26					
Laboratory ID:	08-377-07					
1,1,2-Trichloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00099	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-29-30					
Laboratory ID:	08-377-09					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	0.0012	0.00073	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-29-30					
Laboratory ID:	08-377-09					
1,1,2-Trichloroethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00073	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-35-36					
Laboratory ID:	08-377-10					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0039	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0039	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0039	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0039	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-35-36					
Laboratory ID:	08-377-10					
1,1,2-Trichloroethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0039	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0039	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00078	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-39-40					
Laboratory ID:	08-377-11					
Dichlorodifluoromethane	ND	0.0019	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-39-40					
Laboratory ID:	08-377-11					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-44-45					
Laboratory ID:	08-377-12					
Dichlorodifluoromethane	ND	0.0017	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0044	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0044	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0044	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0044	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-44-45					
Laboratory ID:	08-377-12					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-49-50					
Laboratory ID:	08-377-13					
Dichlorodifluoromethane	ND	0.0024	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0060	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0060	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0060	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0060	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW12D-49-50					
Laboratory ID:	08-377-13					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0060	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160829					
Laboratory ID:	08-377-14					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	2.2	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160829					
Laboratory ID:	08-377-14					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.30	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0901S2					
Dichlorodifluoromethane	ND	0.0020	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0901S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>115</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0902S2					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0902S2				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0901S3									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0526	0.0488	0.0500	0.0500	105	98	68-126	7	15	
Benzene	0.0574	0.0538	0.0500	0.0500	115	108	70-121	6	15	
Trichloroethene	0.0509	0.0469	0.0500	0.0500	102	94	75-120	8	15	
Toluene	0.0565	0.0529	0.0500	0.0500	113	106	80-120	7	15	
Chlorobenzene	0.0497	0.0469	0.0500	0.0500	99	94	76-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					99	104	76-131			
<i>Toluene-d8</i>					101	105	80-126			
<i>4-Bromofluorobenzene</i>					97	100	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0902S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0433	0.0458	0.0500	0.0500	87	92	68-126	6	15	
Benzene	0.0481	0.0516	0.0500	0.0500	96	103	70-121	7	15	
Trichloroethene	0.0463	0.0494	0.0500	0.0500	93	99	75-120	6	15	
Toluene	0.0494	0.0519	0.0500	0.0500	99	104	80-120	5	15	
Chlorobenzene	0.0444	0.0465	0.0500	0.0500	89	93	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>98</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>93</i>	<i>60-146</i>			



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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	2.2	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	



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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.30	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	09-023-03										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	9.19	9.45	10.0	10.0	ND	92	95	67-122	3	15	
Benzene	9.86	10.2	10.0	10.0	ND	99	102	76-120	3	15	
Trichloroethene	8.47	8.79	10.0	10.0	ND	85	88	66-111	4	15	
Toluene	9.83	10.0	10.0	10.0	ND	98	100	75-120	2	15	
Chlorobenzene	9.41	9.88	10.0	10.0	ND	94	99	76-120	5	15	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						103	102	71-131			
<i>Toluene-d8</i>						101	102	80-127			
<i>4-Bromofluorobenzene</i>						91	96	80-125			



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% MOISTURE

Date Analyzed: 8-31-16

Client ID	Lab ID	% Moisture
A11-MW12D-5-6	08-377-02	15
A11-MW12D-6-7	08-377-03	27
A11-MW12D-12-13	08-377-04	17
A11-MW12D-15-16	08-377-05	19
A11-MW12D-25-26	08-377-07	10
A11-MW12D-29-30	08-377-09	13
A11-MW12D-35-36	08-377-10	12
A11-MW12D-39-40	08-377-11	12
A11-MW12D-44-45	08-377-12	14
A11-MW12D-49-50	08-377-13	19





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.
 Analytical Laboratory / Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **08-377**

Company: Geo Engineers
 Project Number: 0183-109-01 TSC
 Project Name: WWT - 2016 RI
 Project Manager: Tricia De Ome
 Sampled by: SD

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	A11-MW2D-39-40	8/29/16	1240	S
12	A11-MW12D-44-45		1225	S
13	A11-MW12D-49-50		1230	S
14	FB-20160829		n/a	W

Number of Containers

Container	Analysis	Result
NWTPH-HCID		
NWTPH-Gx/BTEX		
NWTPH-Gx		
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)		
Volatiles 8260C		
Halogenated Volatiles 8260C		X
EDB EPA 8011 (Waters Only)		
Semivolatiles 8270D/SIM (with low-level PAHs)		
PAHs 8270D/SIM (low-level)		
PCBs 8082A		
Organochlorine Pesticides 8081B		
Organophosphorus Pesticides 8270D/SIM		
Chlorinated Acid Herbicides 8151A		
Total RCRA Metals		
Total MTCA Metals		
TCLP Metals		
HEM (oil and grease) 1664A		X
% Moisture		X

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	GEI	8/29/16	1615	<input checked="" type="checkbox"/> Added 9/17/16 - DB (STA)
<u>[Signature]</u>	GEI	8/29/16	1615	
<u>[Signature]</u>	GEI	8/30/16	1125	
<u>[Signature]</u>	SPERRY	8/30/16	11:25	
<u>[Signature]</u>	SPERRY	8/30/16	1:30	

Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Received _____
 Relinquished _____
 Reviewed/Date _____

Reviewed/Date _____

Chromatograms with final report Level III Level IV

Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 2, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1608-395

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on August 31, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 2, 2016
Samples Submitted: August 31, 2016
Laboratory Reference: 1608-395
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 30, 2016 and received by the laboratory on August 31, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: September 2, 2016
Samples Submitted: August 31, 2016
Laboratory Reference: 1608-395
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
RIN-20160830	08-395-08	Water	8-30-16	8-31-16	



Date of Report: September 2, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-395
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RIN-20160830					
Laboratory ID:	08-395-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 2, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-395
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RIN-20160830					
Laboratory ID:	08-395-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	71-131				
<i>Toluene-d8</i>	102	80-127				
<i>4-Bromofluorobenzene</i>	92	80-125				



Date of Report: September 2, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-395
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0901W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chloromethane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromomethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chloroethane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Iodomethane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-1-16	9-1-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chloroform	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Trichloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Dibromomethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-1-16	9-1-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-1-16	9-1-16	



Date of Report: September 2, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-395
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0901W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Bromoform	ND	1.0	EPA 8260C	9-1-16	9-1-16	
Bromobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-1-16	9-1-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-1-16	9-1-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-1-16	9-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: September 2, 2016
 Samples Submitted: August 31, 2016
 Laboratory Reference: 1608-395
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0901W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.76	9.61	10.0	10.0	98	96	62-132	2	20	
Benzene	10.1	10.0	10.0	10.0	101	100	75-121	1	15	
Trichloroethene	9.09	8.56	10.0	10.0	91	86	65-115	6	15	
Toluene	10.2	9.90	10.0	10.0	102	99	78-120	3	15	
Chlorobenzene	10.2	9.72	10.0	10.0	102	97	77-118	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					98	105	71-131			
<i>Toluene-d8</i>					100	100	80-127			
<i>4-Bromofluorobenzene</i>					94	95	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1609-012

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on September 1, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2016
Samples Submitted: September 1, 2016
Laboratory Reference: 1609-012
Project: 0183-109-01-T500

Case Narrative

Samples were collected on August 31, 2016 and received by the laboratory on September 1, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 13, 2016
Samples Submitted: September 1, 2016
Laboratory Reference: 1609-012
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A7-MW1D-6-7	09-012-01	Soil	8-31-16	9-1-16	
A7-MW1D-9-10	09-012-02	Soil	8-31-16	9-1-16	
A7-MW1D-15-16	09-012-03	Soil	8-31-16	9-1-16	
A7-MW1D-19-20	09-012-04	Soil	8-31-16	9-1-16	
A7-MW1D-25-26	09-012-05	Soil	8-31-16	9-1-16	
A7-MW1D-26-27	09-012-06	Soil	8-31-16	9-1-16	
DUP1-20160831	09-012-07	Soil	8-31-16	9-1-16	
A7-MW1D-29-30	09-012-08	Soil	8-31-16	9-1-16	
A7-MW1D-34-35	09-012-09	Soil	8-31-16	9-1-16	
A7-MW1D-39-40	09-012-10	Soil	8-31-16	9-1-16	
TB-20160831	09-012-11	Water	---	9-1-16	



Date of Report: September 13, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-012
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-6-7					
Laboratory ID:	09-012-01					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0045	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0045	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0045	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0061	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-6-7					
Laboratory ID:	09-012-01					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-9-10					
Laboratory ID:	09-012-02					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0046	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0046	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0046	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-9-10					
Laboratory ID:	09-012-02					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-15-16					
Laboratory ID:	09-012-03					
Dichlorodifluoromethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0043	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0043	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0043	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0058	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0043	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-15-16					
Laboratory ID:	09-012-03					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	0.0042	0.00085	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-25-26					
Laboratory ID:	09-012-05					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0042	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0042	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0042	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0057	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-25-26					
Laboratory ID:	09-012-05					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	0.012	0.00084	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160831					
Laboratory ID:	09-012-07					
Dichlorodifluoromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP1-20160831					
Laboratory ID:	09-012-07					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	0.015	0.00095	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-34-35					
Laboratory ID:	09-012-09					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0052	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0052	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0052	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0070	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-34-35					
Laboratory ID:	09-012-09					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-39-40					
Laboratory ID:	09-012-10					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0047	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0047	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0047	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0063	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-39-40					
Laboratory ID:	09-012-10					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>60-146</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160831					
Laboratory ID:	09-012-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160831					
Laboratory ID:	09-012-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-19-20					
Laboratory ID:	09-012-04					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-19-20					
Laboratory ID:	09-012-04					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	0.0021	0.00089	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0045	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-26-27					
Laboratory ID:	09-012-06					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-26-27					
Laboratory ID:	09-012-06					
1,1,2-Trichloroethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	0.012	0.00092	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.00092	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-29-30					
Laboratory ID:	09-012-08					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-29-30					
Laboratory ID:	09-012-08					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	0.012	0.0011	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0907S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	0.0068	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0907S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>60-146</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 13, 2016
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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0907S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0442	0.0464	0.0500	0.0500	88	93	68-126	5	15	
Benzene	0.0457	0.0471	0.0500	0.0500	91	94	70-121	3	15	
Trichloroethene	0.0460	0.0480	0.0500	0.0500	92	96	75-120	4	15	
Toluene	0.0472	0.0492	0.0500	0.0500	94	98	80-120	4	15	
Chlorobenzene	0.0477	0.0481	0.0500	0.0500	95	96	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	97	76-131			
<i>Toluene-d8</i>					102	99	80-126			
<i>4-Bromofluorobenzene</i>					103	96	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0908S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0437	0.0447	0.0500	0.0500	87	89	68-126	2	15	
Benzene	0.0438	0.0459	0.0500	0.0500	88	92	70-121	5	15	
Trichloroethene	0.0452	0.0475	0.0500	0.0500	90	95	75-120	5	15	
Toluene	0.0456	0.0478	0.0500	0.0500	91	96	80-120	5	15	
Chlorobenzene	0.0459	0.0479	0.0500	0.0500	92	96	76-120	4	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	111	76-131			
<i>Toluene-d8</i>					103	106	80-126			
<i>4-Bromofluorobenzene</i>					100	103	60-146			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0908W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloromethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Iodomethane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Methylene Chloride	ND	1.0	EPA 8260C	9-8-16	9-8-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chloroform	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Trichloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromomethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chloroethyl Vinyl Ether	ND	1.3	EPA 8260C	9-8-16	9-8-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-8-16	9-8-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0908W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Bromoform	ND	1.0	EPA 8260C	9-8-16	9-8-16	
Bromobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-8-16	9-8-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-8-16	9-8-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-8-16	9-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



Date of Report: September 13, 2016
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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0908W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.61	7.57	10.0	10.0	86	76	62-132	13	20	
Benzene	9.45	8.70	10.0	10.0	95	87	75-121	8	15	
Trichloroethene	7.40	6.64	10.0	10.0	74	66	65-115	11	15	
Toluene	10.0	8.86	10.0	10.0	100	89	78-120	12	15	
Chlorobenzene	8.79	7.73	10.0	10.0	88	77	77-118	13	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	98	71-131			
<i>Toluene-d8</i>					99	100	80-127			
<i>4-Bromofluorobenzene</i>					105	104	80-125			



Date of Report: September 13, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0912S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	9-12-16	9-12-16	
Chloromethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromomethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Chloroethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Iodomethane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Chloroform	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0912S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromoform	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-12-16	9-12-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-12-16	9-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>60-146</i>				



Date of Report: September 13, 2016
 Samples Submitted: September 1, 2016
 Laboratory Reference: 1609-012
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0415	0.0406	0.0500	0.0500	83	81	68-126	2	15	
Benzene	0.0446	0.0452	0.0500	0.0500	89	90	70-121	1	15	
Trichloroethene	0.0465	0.0474	0.0500	0.0500	93	95	75-120	2	15	
Toluene	0.0471	0.0479	0.0500	0.0500	94	96	80-120	2	15	
Chlorobenzene	0.0463	0.0467	0.0500	0.0500	93	93	76-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>107</i>	<i>108</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>106</i>	<i>104</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>104</i>	<i>103</i>	<i>60-146</i>			



Date of Report: September 13, 2016
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Laboratory Reference: 1609-012
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 9-7&9-16

Client ID	Lab ID	% Moisture
A7-MW1D-6-7	09-012-01	10
A7-MW1D-9-10	09-012-02	9
A7-MW1D-15-16	09-012-03	3
A7-MW1D-19-20	09-012-04	9
A7-MW1D-25-26	09-012-05	14
A7-MW1D-26-27	09-012-06	8
DUP1-20160831	09-012-07	9
A7-MW1D-29-30	09-012-08	15
A7-MW1D-34-35	09-012-09	15
A7-MW1D-39-40	09-012-10	14





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 8, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1609-021

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on September 2, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: September 8, 2016
Samples Submitted: September 2, 2016
Laboratory Reference: 1609-021
Project: 0183-109-01-T500

Case Narrative

Samples were collected on September 1, 2016 and received by the laboratory on September 2, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C (Soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: September 8, 2016
Samples Submitted: September 2, 2016
Laboratory Reference: 1609-021
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A7-MW1S-5-6	09-021-01	Soil	9-1-16	9-2-16	
A7-MW1S-9-10	09-021-02	Soil	9-1-16	9-2-16	
A7-MW1S-12-13	09-021-03	Soil	9-1-16	9-2-16	
TB-20160901	09-021-04	Water	---	9-2-16	



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-5-6					
Laboratory ID:	09-021-01					
Dichlorodifluoromethane	ND	0.0022	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-5-6					
Laboratory ID:	09-021-01					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-9-10					
Laboratory ID:	09-021-02					
Dichlorodifluoromethane	ND	0.0025	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 8, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-9-10					
Laboratory ID:	09-021-02					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0049	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-12-13					
Laboratory ID:	09-021-03					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-12-13					
Laboratory ID:	09-021-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160901					
Laboratory ID:	09-021-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	3.0	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-7-16	9-7-16	



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20160901					
Laboratory ID:	09-021-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-125</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0902S2					
Dichlorodifluoromethane	ND	0.0026	EPA 8260C	9-2-16	9-2-16	
Chloromethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Iodomethane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
Methylene Chloride	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chloroform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0902S2						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromoform	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-2-16	9-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-2-16	9-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-126</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>60-146</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0902S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0433	0.0458	0.0500	0.0500	87	92	68-126	6	15	
Benzene	0.0481	0.0516	0.0500	0.0500	96	103	70-121	7	15	
Trichloroethene	0.0463	0.0494	0.0500	0.0500	93	99	75-120	6	15	
Toluene	0.0494	0.0519	0.0500	0.0500	99	104	80-120	5	15	
Chlorobenzene	0.0444	0.0465	0.0500	0.0500	89	93	76-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>98</i>	<i>76-131</i>			
<i>Toluene-d8</i>					<i>104</i>	<i>99</i>	<i>80-126</i>			
<i>4-Bromofluorobenzene</i>					<i>98</i>	<i>93</i>	<i>60-146</i>			



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0907W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chloromethane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromomethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chloroethane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Iodomethane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Methylene Chloride	ND	2.0	EPA 8260C	9-7-16	9-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chloroform	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Trichloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Dibromomethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
2-Chloroethyl Vinyl Ether	ND	3.0	EPA 8260C	9-7-16	9-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-7-16	9-7-16	



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0907W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Bromoform	ND	1.0	EPA 8260C	9-7-16	9-7-16	
Bromobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-7-16	9-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-7-16	9-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-7-16	9-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>71-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



Date of Report: September 8, 2016
 Samples Submitted: September 2, 2016
 Laboratory Reference: 1609-021
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	09-022-02										
	MS	MSD	MS	MSD		MS	MSD				
1,1-Dichloroethene	9.67	9.28	10.0	10.0	ND	97	93	67-122	4	15	
Benzene	10.1	9.88	10.0	10.0	ND	101	99	76-120	2	15	
Trichloroethene	8.84	8.89	10.0	10.0	ND	88	89	66-111	1	15	
Toluene	10.4	10.3	10.0	10.0	ND	104	103	75-120	1	15	
Chlorobenzene	9.79	9.68	10.0	10.0	ND	98	97	76-120	1	15	
<i>Surrogate:</i>											
<i>Dibromofluoromethane</i>						<i>101</i>	<i>98</i>	<i>71-131</i>			
<i>Toluene-d8</i>						<i>101</i>	<i>103</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>						<i>95</i>	<i>94</i>	<i>80-125</i>			



Date of Report: September 8, 2016
Samples Submitted: September 2, 2016
Laboratory Reference: 1609-021
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 9-2-16

Client ID	Lab ID	% Moisture
A7-MW1S-5-6	09-021-01	10
A7-MW1S-9-10	09-021-02	9
A7-MW1S-12-13	09-021-03	8





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 4, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1610-312

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 4, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-312
Project: 0183-109-01

Case Narrative

Samples were collected on October 25 and 26, 2016 and received by the laboratory on October 27, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

All four Internal Standards did not meet acceptance criteria for sample A6-MW1D/1S. The sample was reanalyzed with similar results. Leaks in the sealed VOA environment caused by grit between the VOA lip and VOA cap septum have been shown to cause low internal standard recovery. The sample was consequently extracted from the 4-ounce jar, analyzed, and reported. Some loss of volatiles may have occurred, and Methylene Chloride, a common laboratory solvent, may have been introduced during sample preparation and thereby be impacting the sample result.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW2S/2D	10-312-01	Soil	10-25-16	10-27-16	
A6-MW1D/1S	10-312-02	Soil	10-25-16	10-27-16	
A11-MW2S/2D/3D/5D/6S	10-312-03	Soil	10-25-16	10-27-16	
UG-MW36D	10-312-04	Soil	10-25-16	10-27-16	
A11-MW1D/1S/7S/7D	10-312-05	Soil	10-26-16	10-27-16	
A7-MW1S/1D	10-312-06	Soil	10-26-16	10-27-16	
A11-MW12S/12D	10-312-07	Soil	10-26-16	10-27-16	
UG-MW27S/A11-MW8S	10-312-08	Soil	10-26-16	10-27-16	
A11-MW11S/11D	10-312-09	Soil	10-26-16	10-27-16	



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S/2D					
Laboratory ID:	10-312-01					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	0.010	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	



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 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S/2D					
Laboratory ID:	10-312-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.0020	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	93	73-134				
<i>Toluene-d8</i>	96	81-124				
<i>4-Bromofluorobenzene</i>	94	80-131				



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 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D/1S					
Laboratory ID:	10-312-02					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0016	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Acetone	ND	0.019	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
Carbon Disulfide	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	0.031	0.0079	EPA 8260C	11-2-16	11-2-16	Y,H
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Vinyl Acetate	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Butanone	ND	0.0085	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Benzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
Toluene	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D/1S					
Laboratory ID:	10-312-02					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Hexanone	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Ethylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
m,p-Xylene	ND	0.0025	EPA 8260C	11-2-16	11-2-16	
o-Xylene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Styrene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Isopropylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
n-Propylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
tert-Butylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
sec-Butylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
p-Isopropyltoluene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
n-Butylbenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0062	EPA 8260C	11-2-16	11-2-16	
Naphthalene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-131</i>				



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 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D					
Laboratory ID:	10-312-04					
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	0.0084	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D					
Laboratory ID:	10-312-04					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.0017	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-131</i>				



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11S/11D					
Laboratory ID:	10-312-09					
Dichlorodifluoromethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	0.0075	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	0.0013	0.00075	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11S/11D					
Laboratory ID:	10-312-09					
1,1,2-Trichloroethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.0015	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0037	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.00075	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-131</i>				



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 Project: 0183-109-01

**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-312-01					
Client ID:	A6-MW2S/2D					
Arsenic	ND	14	6010C	11-3-16	11-3-16	
Barium	70	3.5	6010C	11-3-16	11-3-16	
Cadmium	ND	0.70	6010C	11-3-16	11-3-16	
Chromium	17	0.70	6010C	11-3-16	11-3-16	
Lead	8.3	7.0	6010C	11-3-16	11-3-16	
Mercury	ND	0.35	7471B	10-31-16	10-31-16	
Selenium	ND	14	6010C	11-3-16	11-3-16	
Silver	ND	1.4	6010C	11-3-16	11-3-16	

Lab ID:	10-312-02					
Client ID:	A6-MW1D/1S					
Arsenic	ND	13	6010C	11-3-16	11-3-16	
Barium	87	3.2	6010C	11-3-16	11-3-16	
Cadmium	ND	0.64	6010C	11-3-16	11-3-16	
Chromium	34	0.64	6010C	11-3-16	11-3-16	
Lead	ND	6.4	6010C	11-3-16	11-3-16	
Mercury	ND	0.32	7471B	10-31-16	10-31-16	
Selenium	ND	13	6010C	11-3-16	11-3-16	
Silver	ND	1.3	6010C	11-3-16	11-3-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-312-03					
Client ID:	A11-MW2S/2D/3D/5D/6S					
Arsenic	ND	11	6010C	11-3-16	11-3-16	
Barium	59	2.7	6010C	11-3-16	11-3-16	
Cadmium	ND	0.54	6010C	11-3-16	11-3-16	
Chromium	31	0.54	6010C	11-3-16	11-3-16	
Lead	ND	5.4	6010C	11-3-16	11-3-16	
Mercury	ND	0.27	7471B	10-31-16	10-31-16	
Selenium	ND	11	6010C	11-3-16	11-3-16	
Silver	ND	1.1	6010C	11-3-16	11-3-16	

Lab ID:	10-312-04					
Client ID:	UG-MW36D					
Arsenic	ND	11	6010C	11-3-16	11-3-16	
Barium	46	2.7	6010C	11-3-16	11-3-16	
Cadmium	ND	0.55	6010C	11-3-16	11-3-16	
Chromium	31	0.55	6010C	11-3-16	11-3-16	
Lead	ND	5.5	6010C	11-3-16	11-3-16	
Mercury	ND	0.27	7471B	10-31-16	10-31-16	
Selenium	ND	11	6010C	11-3-16	11-3-16	
Silver	ND	1.1	6010C	11-3-16	11-3-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-312-05					
Client ID:	A11-MW1D/1S/7S/7D					
Arsenic	ND	11	6010C	11-3-16	11-3-16	
Barium	50	2.8	6010C	11-3-16	11-3-16	
Cadmium	ND	0.56	6010C	11-3-16	11-3-16	
Chromium	29	0.56	6010C	11-3-16	11-3-16	
Lead	ND	5.6	6010C	11-3-16	11-3-16	
Mercury	ND	0.28	7471B	10-31-16	10-31-16	
Selenium	ND	11	6010C	11-3-16	11-3-16	
Silver	ND	1.1	6010C	11-3-16	11-3-16	

Lab ID:	10-312-06					
Client ID:	A7-MW1S/1D					
Arsenic	ND	11	6010C	11-3-16	11-3-16	
Barium	50	2.7	6010C	11-3-16	11-3-16	
Cadmium	ND	0.55	6010C	11-3-16	11-3-16	
Chromium	39	0.55	6010C	11-3-16	11-3-16	
Lead	ND	5.5	6010C	11-3-16	11-3-16	
Mercury	ND	0.27	7471B	10-31-16	10-31-16	
Selenium	ND	11	6010C	11-3-16	11-3-16	
Silver	ND	1.1	6010C	11-3-16	11-3-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date	Date	Flags
				Prepared	Analyzed	
Lab ID:	10-312-07					
Client ID:	A11-MW12S/12D					
Arsenic	ND	13	6010C	11-3-16	11-3-16	
Barium	100	3.2	6010C	11-3-16	11-3-16	
Cadmium	ND	0.64	6010C	11-3-16	11-3-16	
Chromium	46	0.64	6010C	11-3-16	11-3-16	
Lead	ND	6.4	6010C	11-3-16	11-3-16	
Mercury	ND	0.32	7471B	10-31-16	10-31-16	
Selenium	ND	13	6010C	11-3-16	11-3-16	
Silver	ND	1.3	6010C	11-3-16	11-3-16	

Lab ID:	10-312-08					
Client ID:	UG-MW27S/A11-MW8S					
Arsenic	ND	11	6010C	11-3-16	11-3-16	
Barium	59	2.7	6010C	11-3-16	11-3-16	
Cadmium	ND	0.55	6010C	11-3-16	11-3-16	
Chromium	38	0.55	6010C	11-3-16	11-3-16	
Lead	ND	5.5	6010C	11-3-16	11-3-16	
Mercury	ND	0.27	7471B	10-31-16	10-31-16	
Selenium	ND	11	6010C	11-3-16	11-3-16	
Silver	ND	1.1	6010C	11-3-16	11-3-16	



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-312-09					
Client ID:	A11-MW11S/11D					
Arsenic	ND	11	6010C	11-3-16	11-3-16	
Barium	67	2.8	6010C	11-3-16	11-3-16	
Cadmium	ND	0.56	6010C	11-3-16	11-3-16	
Chromium	47	0.56	6010C	11-3-16	11-3-16	
Lead	ND	5.6	6010C	11-3-16	11-3-16	
Mercury	ND	0.28	7471B	10-31-16	10-31-16	
Selenium	ND	11	6010C	11-3-16	11-3-16	
Silver	ND	1.1	6010C	11-3-16	11-3-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1101S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloromethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Acetone	ND	0.010	EPA 8260C	11-1-16	11-1-16	
Iodomethane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methylene Chloride	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Butanone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chloroform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Benzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Toluene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	



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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1101S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Hexanone	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Ethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
m,p-Xylene	ND	0.0020	EPA 8260C	11-1-16	11-1-16	
o-Xylene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Styrene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromoform	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-1-16	11-1-16	
Naphthalene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-1-16	11-1-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-131</i>				



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 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Chloromethane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromomethane	ND	0.0013	EPA 8260C	11-2-16	11-2-16	
Chloroethane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Acetone	ND	0.015	EPA 8260C	11-2-16	11-2-16	
Iodomethane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Carbon Disulfide	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Methylene Chloride	ND	0.0064	EPA 8260C	11-2-16	11-2-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Vinyl Acetate	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2-Butanone	ND	0.0069	EPA 8260C	11-2-16	11-2-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Chloroform	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Benzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Toluene	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1102S1				
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2-Hexanone	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Ethylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
m,p-Xylene	ND	0.0020	EPA 8260C	11-2-16	11-2-16	
o-Xylene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Styrene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromoform	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Isopropylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
n-Propylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
tert-Butylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
sec-Butylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
n-Butylbenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-2-16	11-2-16	
Naphthalene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-2-16	11-2-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-131</i>				



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1101S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0479	0.0508	0.0500	0.0500	96	102	66-127	6	15	
Benzene	0.0479	0.0511	0.0500	0.0500	96	102	76-122	6	15	
Trichloroethene	0.0465	0.0476	0.0500	0.0500	93	95	78-120	2	15	
Toluene	0.0506	0.0507	0.0500	0.0500	101	101	83-120	0	15	
Chlorobenzene	0.0485	0.0503	0.0500	0.0500	97	101	81-120	4	15	
<i>Surrogate:</i>										
Dibromofluoromethane					97	102	73-134			
Toluene-d8					99	102	81-124			
4-Bromofluorobenzene					97	100	80-131			



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1102S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0508	0.0554	0.0500	0.0500	102	111	66-127	9	15	
Benzene	0.0488	0.0515	0.0500	0.0500	98	103	76-122	5	15	
Trichloroethene	0.0456	0.0484	0.0500	0.0500	91	97	78-120	6	15	
Toluene	0.0491	0.0517	0.0500	0.0500	98	103	83-120	5	15	
Chlorobenzene	0.0484	0.0510	0.0500	0.0500	97	102	81-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	103	73-134			
<i>Toluene-d8</i>					98	103	81-124			
<i>4-Bromofluorobenzene</i>					98	101	80-131			



Date of Report: November 4, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-312
Project: 0183-109-01

**TOTAL METALS
EPA 6010C
METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-3-16
Date Analyzed: 11-3-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1103SM3

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: November 4, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-312
Project: 0183-109-01

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-31-16
Date Analyzed: 10-31-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1031S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 11-3-16

Date Analyzed: 11-3-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-324-05

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	44.6	47.7	7	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	24.8	28.1	13	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: November 4, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-312
Project: 0183-109-01

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-31-16
Date Analyzed: 10-31-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 10-325-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: November 4, 2016
 Samples Submitted: October 27, 2016
 Laboratory Reference: 1610-312
 Project: 0183-109-01

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 11-3-16

Date Analyzed: 11-3-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-324-05

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	89.6	90	90.8	91	1	
Barium	100	152	108	142	98	7	
Cadmium	50.0	46.3	93	46.8	94	1	
Chromium	100	115	90	115	91	0	
Lead	250	222	89	226	90	1	
Selenium	100	89.5	90	92.7	93	4	
Silver	25.0	21.8	87	22.0	88	1	



Date of Report: November 4, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-312
Project: 0183-109-01

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 10-31-16

Date Analyzed: 10-31-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-325-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.493	99	0.478	96	3	



Date of Report: November 4, 2016
Samples Submitted: October 27, 2016
Laboratory Reference: 1610-312
Project: 0183-109-01

% MOISTURE

Date Analyzed: 11-1&2-16

Client ID	Lab ID	% Moisture
A6-MW2S/2D	10-312-01	28
A6-MW1D/1S	10-312-02	22
A11-MW2S/2D/3D/5D/6S	10-312-03	8
UG-MW36D	10-312-04	9
A11-MW1D/1S/7S/7D	10-312-05	11
A7-MW1S/1D	10-312-06	9
A11-MW12S/12D	10-312-07	21
UG-MW27S/A11-MW8S	10-312-08	8
A11-MW11S/11D	10-312-09	10





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 21, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01-T500
Laboratory Reference No. 1611-132

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on November 11, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 21, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-132
Project: 0183-109-01-T500

Case Narrative

Samples were collected on November 11, 2016 and received by the laboratory on November 11, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Halogenated Volatiles EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: November 21, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-132
Project: 0183-109-01-T500

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A7-MW2S-6-7	11-132-01	Soil	11-11-16	11-11-16	
A7-MW2S-10-11	11-132-02	Soil	11-11-16	11-11-16	
A7-MW2S-15.5-16.5	11-132-03	Soil	11-11-16	11-11-16	
A7-MW2S-17-18	11-132-04	Soil	11-11-16	11-11-16	
A7-MW2S-24-25	11-132-05	Soil	11-11-16	11-11-16	



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-10-11					
Laboratory ID:	11-132-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	0.0052	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	0.0052	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	0.0052	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	0.010	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-10-11					
Laboratory ID:	11-132-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-131</i>				



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-15.5-16.5					
Laboratory ID:	11-132-03					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	0.0052	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	0.0052	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	0.0052	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	0.010	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-15.5-16.5					
Laboratory ID:	11-132-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-17-18					
Laboratory ID:	11-132-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	0.0051	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	0.0051	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	0.0051	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	0.010	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0066	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-17-18					
Laboratory ID:	11-132-04					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-131</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-24-25					
Laboratory ID:	11-132-05					
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	0.0058	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	0.0058	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	0.0058	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	0.012	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0074	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW2S-24-25					
Laboratory ID:	11-132-05					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0058	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.0058	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-131</i>				



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**TOTAL METALS
 EPA 6010C/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	11-132-01,02,03,04,05 Comp.					
Client ID:	A7-MW2S-6-7,10-11,15.5-16.5,17-18,24-25 Comp.					
Arsenic	ND	12	6010C	11-15-16	11-15-16	
Barium	84	3.0	6010C	11-15-16	11-15-16	
Cadmium	ND	0.60	6010C	11-15-16	11-15-16	
Chromium	42	0.60	6010C	11-15-16	11-15-16	
Lead	ND	6.0	6010C	11-15-16	11-15-16	
Mercury	ND	0.30	7471B	11-17-16	11-17-16	
Selenium	ND	12	6010C	11-15-16	11-15-16	
Silver	ND	1.2	6010C	11-15-16	11-15-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1114S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	11-14-16	11-14-16	
Chloromethane	ND	0.0050	EPA 8260C	11-14-16	11-14-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromomethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chloroethane	ND	0.0050	EPA 8260C	11-14-16	11-14-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Iodomethane	ND	0.0050	EPA 8260C	11-14-16	11-14-16	
Methylene Chloride	ND	0.010	EPA 8260C	11-14-16	11-14-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chloroform	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260C	11-14-16	11-14-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	



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**HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1114S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromoform	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-14-16	11-14-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-14-16	11-14-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-14-16	11-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-131</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chloromethane	ND	0.0050	EPA 8260C	11-16-16	11-16-16	
Vinyl Chloride	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromomethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chloroethane	ND	0.0050	EPA 8260C	11-16-16	11-16-16	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Iodomethane	ND	0.0050	EPA 8260C	11-16-16	11-16-16	
Methylene Chloride	ND	0.010	EPA 8260C	11-16-16	11-16-16	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromochloromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chloroform	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Trichloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Dibromomethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromodichloromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	11-16-16	11-16-16	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1116S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Tetrachloroethene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Dibromochloromethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Chlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromoform	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Bromobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
2-Chlorotoluene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
4-Chlorotoluene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	11-16-16	11-16-16	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	11-16-16	11-16-16	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	11-16-16	11-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>73-134</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>81-124</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-131</i>				



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1114S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0429	0.0439	0.0500	0.0500	86	88	66-127	2	15	
Benzene	0.0487	0.0524	0.0500	0.0500	97	105	76-122	7	15	
Trichloroethene	0.0482	0.0509	0.0500	0.0500	96	102	78-120	5	15	
Toluene	0.0485	0.0524	0.0500	0.0500	97	105	83-120	8	15	
Chlorobenzene	0.0503	0.0530	0.0500	0.0500	101	106	81-120	5	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	97	73-134			
<i>Toluene-d8</i>					101	101	81-124			
<i>4-Bromofluorobenzene</i>					101	103	80-131			



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1116S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0357	0.0386	0.0500	0.0500	71	77	66-127	8	15	
Benzene	0.0458	0.0483	0.0500	0.0500	92	97	76-122	5	15	
Trichloroethene	0.0443	0.0472	0.0500	0.0500	89	94	78-120	6	15	
Toluene	0.0450	0.0476	0.0500	0.0500	90	95	83-120	6	15	
Chlorobenzene	0.0501	0.0510	0.0500	0.0500	100	102	81-120	2	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>103</i>	<i>105</i>	<i>73-134</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>99</i>	<i>81-124</i>			
<i>4-Bromofluorobenzene</i>					<i>104</i>	<i>101</i>	<i>80-131</i>			



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-15-16
 Date Analyzed: 11-15-16
 Matrix: Soil
 Units: mg/kg (ppm)
 Lab ID: MB1115SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



Date of Report: November 21, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-132
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
METHOD BLANK QUALITY CONTROL**

Date Extracted: 11-17-16
Date Analyzed: 11-17-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1117S1

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 DUPLICATE QUALITY CONTROL**

Date Extracted: 11-15-16
 Date Analyzed: 11-15-16

 Matrix: Soil
 Units: mg/kg (ppm)

 Lab ID: 11-133-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	45.2	42.0	7	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	14.4	12.5	15	0.50	
Lead	ND	ND	NA	5.0	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: November 21, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-132
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
DUPLICATE QUALITY CONTROL**

Date Extracted: 11-17-16
Date Analyzed: 11-17-16

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 11-143-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	ND	ND	NA	0.25	



Date of Report: November 21, 2016
 Samples Submitted: November 11, 2016
 Laboratory Reference: 1611-132
 Project: 0183-109-01-T500

**TOTAL METALS
 EPA 6010C
 MS/MSD QUALITY CONTROL**

Date Extracted: 11-15-16

Date Analyzed: 11-15-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 11-133-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	90.6	91	92.0	92	2	
Barium	100	140	94	140	94	0	
Cadmium	50.0	47.4	95	49.0	98	3	
Chromium	100	108	94	109	94	1	
Lead	250	230	92	236	95	3	
Selenium	100	91.4	91	94.7	95	4	
Silver	25.0	21.6	86	22.7	91	5	



Date of Report: November 21, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-132
Project: 0183-109-01-T500

**TOTAL MERCURY
EPA 7471B
MS/MSD QUALITY CONTROL**

Date Extracted: 11-17-16

Date Analyzed: 11-17-16

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 11-143-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	0.529	106	0.513	103	3	



Date of Report: November 21, 2016
Samples Submitted: November 11, 2016
Laboratory Reference: 1611-132
Project: 0183-109-01-T500

% MOISTURE

Date Analyzed: 11-14-16

Client ID	Lab ID	% Moisture
A7-MW2S-6-7	11-132-01	13
A7-MW2S-10-11	11-132-02	21
A7-MW2S-15.5-16.5	11-132-03	19
A7-MW2S-17-18	11-132-04	23
A7-MW2S-24-25	11-132-05	8





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **11-132**

Company: GeoEngineers
 Project Number: 0183-109-01 T500
 Project Name: UWT
 Project Manager: Tricia DeDine
 Sampled by: TD

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	A7-hW2S-6-7	11/16/16	1005	S
2	A7-hW2S-10-11	11/16/16	1010	S
3	A7-hW2S-15.5-16.5	11/16/16	1015	S
4	A7-hW2S-17-18	11/16/16	1020	S
5	A7-hW2S-24-25	11/16/16	1030	S

Number of Containers

Matrix	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
S						X												
S						X												
S						X												
S						X												
S						X												

Signature	Company
<u>[Signature]</u>	<u>Geo</u>
<u>[Signature]</u>	<u>ALPHA</u>
<u>[Signature]</u>	<u>GRTE</u>

Date	Time
11/16/16	3:30 PM
11/16/16	3:30 PM
11/16/16	5:22 PM

Comments/Special Instructions
A - composite all samples for analysis

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Reviewed/Date

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 7, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-013

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 1, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2016
Samples Submitted: December 1, 2016
Laboratory Reference: 1612-013
Project: 0183-109-01

Case Narrative

Samples were collected on December 1, 2016 and received by the laboratory on December 1, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 7, 2016
Samples Submitted: December 1, 2016
Laboratory Reference: 1612-013
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW1D-161201	12-013-01	Water	12-1-16	12-1-16	
A11-MW6S-161201	12-013-02	Water	12-1-16	12-1-16	



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-161201					
Laboratory ID:	12-013-01					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	12-5-16	12-5-16	
Chloromethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromomethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chloroethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Iodomethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-16	12-5-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chloroform	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Trichloroethene	5.4	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Dibromomethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2-Chloroethyl Vinyl Ether	ND	2.8	EPA 8260C	12-5-16	12-5-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW1D-161201					
Laboratory ID:	12-013-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromoform	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Bromobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-161201					
Laboratory ID:	12-013-02					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	12-5-16	12-5-16	
Chloromethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromomethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chloroethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Iodomethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-16	12-5-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chloroform	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Trichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Dibromomethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2-Chloroethyl Vinyl Ether	ND	2.8	EPA 8260C	12-5-16	12-5-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW6S-161201					
Laboratory ID:	12-013-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromoform	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Bromobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205W1					
Dichlorodifluoromethane	ND	0.25	EPA 8260C	12-5-16	12-5-16	
Chloromethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromomethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chloroethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Iodomethane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-16	12-5-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chloroform	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Trichloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Dibromomethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2-Chloroethyl Vinyl Ether	ND	2.8	EPA 8260C	12-5-16	12-5-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-16	12-5-16	



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1205W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Bromoform	ND	1.0	EPA 8260C	12-5-16	12-5-16	
Bromobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-16	12-5-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-16	12-5-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-16	12-5-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: December 1, 2016
 Laboratory Reference: 1612-013
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1205W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	7.26	7.07	10.0	10.0	73	71	63-127	3	17	
Benzene	9.06	9.27	10.0	10.0	91	93	76-121	2	12	
Trichloroethene	8.47	7.81	10.0	10.0	85	78	64-114	8	15	
Toluene	8.87	8.59	10.0	10.0	89	86	82-115	3	13	
Chlorobenzene	9.00	8.35	10.0	10.0	90	84	80-115	7	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					93	100	77-129			
<i>Toluene-d8</i>					100	100	80-127			
<i>4-Bromofluorobenzene</i>					92	89	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

- Same Day 1 Day
- 2 Days 3 Days
- Standard (7 Days)
 (TPH analysis 5 Days)
- _____ (other)

Laboratory Number: **12-013**

Company: **GREENWOODS**
 Project Number: **0183-109-01**
 Project Name: **UGT R1**
 Project Manager: **BRIST DEBOWE**
 Sampled by: **PAUL ROBINETTE**

Lab ID Sample Identification

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	A11-MWD-161201	12/1	1405	GLD	3
2	A11-MWD5-161201	12/1	1400	GLD	3

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
3					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	BEI	12/1	1430	<input checked="" type="checkbox"/> - DO NOT TURN
<i>[Signature]</i>	Alpha	12/1	1430	
<i>[Signature]</i>	Alpha	12/16	1535	

Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Received
 Relinquished
 Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 7, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-029

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 2, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: December 7, 2016
Samples Submitted: December 2, 2016
Laboratory Reference: 1612-029
Project: 0183-109-01

Case Narrative

Samples were collected on December 2, 2016 and received by the laboratory on December 2, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 7, 2016
Samples Submitted: December 2, 2016
Laboratory Reference: 1612-029
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A11-MW7S-161202	12-029-01	Water	12-2-16	12-2-16	
A11-MW7D-161202	12-029-02	Water	12-2-16	12-2-16	
A11-MW2D-161202	12-029-03	Water	12-2-16	12-2-16	
A11-MW3D-161202	12-029-04	Water	12-2-16	12-2-16	
A11-MW5D-161202	12-029-05	Water	12-2-16	12-2-16	



Date of Report: December 7, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-161202					
Laboratory ID:	12-029-01					
Dichlorodifluoromethane	ND	2.7	EPA 8260C	12-6-16	12-6-16	
Chloromethane	ND	10	EPA 8260C	12-6-16	12-6-16	
Vinyl Chloride	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Bromomethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Chloroethane	ND	10	EPA 8260C	12-6-16	12-6-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Iodomethane	ND	10	EPA 8260C	12-6-16	12-6-16	
Methylene Chloride	ND	10	EPA 8260C	12-6-16	12-6-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Bromochloromethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Chloroform	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,1,1-Trichloroethane	2.6	2.0	EPA 8260C	12-6-16	12-6-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Trichloroethene	290	2.0	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Dibromomethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Bromodichloromethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
2-Chloroethyl Vinyl Ether	ND	32	EPA 8260C	12-6-16	12-6-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	12-6-16	12-6-16	



Date of Report: December 7, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7S-161202					
Laboratory ID:	12-029-01					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Tetrachloroethene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Dibromochloromethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Chlorobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Bromoform	ND	10	EPA 8260C	12-6-16	12-6-16	
Bromobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	12-6-16	12-6-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	12-6-16	12-6-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	12-6-16	12-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>87</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-161202					
Laboratory ID:	12-029-02					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	12-6-16	12-6-16	
Chloromethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Iodomethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-16	12-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroform	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Trichloroethene	11	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	12-6-16	12-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW7D-161202					
Laboratory ID:	12-029-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromoform	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Bromobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-161202					
Laboratory ID:	12-029-03					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	12-6-16	12-6-16	
Chloromethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Iodomethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-16	12-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroform	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Trichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	12-6-16	12-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW2D-161202					
Laboratory ID:	12-029-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromoform	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Bromobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>85</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-161202					
Laboratory ID:	12-029-04					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	12-6-16	12-6-16	
Chloromethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Iodomethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-16	12-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroform	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Trichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	12-6-16	12-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW3D-161202					
Laboratory ID:	12-029-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromoform	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Bromobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>84</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-161202					
Laboratory ID:	12-029-05					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	12-6-16	12-6-16	
Chloromethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Iodomethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-16	12-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroform	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Trichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	12-6-16	12-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW5D-161202					
Laboratory ID:	12-029-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromoform	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Bromobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260C	12-6-16	12-6-16	
Chloromethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Iodomethane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-16	12-6-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chloroform	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Trichloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromomethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chloroethyl Vinyl Ether	ND	3.2	EPA 8260C	12-6-16	12-6-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-16	12-6-16	



Date of Report: December 7, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1206W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Bromoform	ND	1.0	EPA 8260C	12-6-16	12-6-16	
Bromobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-16	12-6-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-6-16	12-6-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-16	12-6-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-125</i>				



Date of Report: December 7, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1206W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.49	9.15	10.0	10.0	95	92	63-127	4	17	
Benzene	10.9	10.6	10.0	10.0	109	106	76-121	3	12	
Trichloroethene	9.17	8.77	10.0	10.0	92	88	64-114	4	15	
Toluene	10.0	9.85	10.0	10.0	100	99	82-115	1	13	
Chlorobenzene	9.91	9.68	10.0	10.0	99	97	80-115	2	14	
<i>Surrogate:</i>										
Dibromofluoromethane					87	86	77-129			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					101	102	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 20, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-029B

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 2, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 20, 2016
Samples Submitted: December 2, 2016
Laboratory Reference: 1612-029B
Project: 0183-109-01

Case Narrative

Samples were collected on December 2, 2016 and received by the laboratory on December 2, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 20, 2016
Samples Submitted: December 2, 2016
Laboratory Reference: 1612-029B
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
TB-20161202	12-029-06	Water	12-2-16	12-2-16	



Date of Report: December 20, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029B
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161202					
Laboratory ID:	12-029-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



Date of Report: December 20, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029B
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161202					
Laboratory ID:	12-029-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: December 20, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029B
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



Date of Report: December 20, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029B
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 20, 2016
 Samples Submitted: December 2, 2016
 Laboratory Reference: 1612-029B
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	63-127	5	17	
Benzene	10.8	10.5	10.0	10.0	108	105	76-121	3	12	
Trichloroethene	9.66	9.51	10.0	10.0	97	95	64-114	2	15	
Toluene	10.2	10.0	10.0	10.0	102	100	82-115	2	13	
Chlorobenzene	9.55	9.45	10.0	10.0	96	95	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	112	77-129			
<i>Toluene-d8</i>					106	105	80-127			
<i>4-Bromofluorobenzene</i>					95	94	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: 12-029

Company: Gate 06/2012
 Project Number: D183-109-01
 Project Name: U1ST B1
 Project Manager: TRENTA DEBINE
 Sampled by: RE, CSG, PDR

Lab ID Sample Identification Date Sampled Time Sampled Matrix Number of Containers

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	A11-MWD75-161202	12/2	0940	610	3
2	A11-MWD7D-161202	12/2	1006	1	3
3	A11-MWD2D-161202				
4	A11-MWD3D-161202				
5	A11-MWD5D-161202	12/2	1250	1	3
6	FRD B100K TB-20161202 DB				

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3						X												
3						X												
3						X												
3						X												
3						X												
1						X												

Signature	Company	Date	Time	Comments/Special Instructions
	BEI	12/2/16	15:47	(X) Added 12/16/16. DB (STA)
	ALTA	12/2/16	15:47	
	ALTA	12/2/16	18:18	
	ALTA	12/2/16	18:18	
	ALTA	12/2/16	18:18	
	ALTA	12/2/16	18:18	
Received				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 13, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-040

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 6, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 13, 2016
Samples Submitted: December 6, 2016
Laboratory Reference: 1612-040
Project: 0183-109-01

Case Narrative

Samples were collected on December 5, 2016 and received by the laboratory on December 6, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 13, 2016
Samples Submitted: December 6, 2016
Laboratory Reference: 1612-040
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW1D-161205	12-040-01	Water	12-5-16	12-6-16	
UG-MW24-161205	12-040-02	Water	12-5-16	12-6-16	
A6-MW2D-161205	12-040-03	Water	12-5-16	12-6-16	
A6-MW3S-161205	12-040-04	Water	12-5-16	12-6-16	
UG-MW37R-161205	12-040-05	Water	12-5-16	12-6-16	
UG-MW38S-161205	12-040-06	Water	12-5-16	12-6-16	
UG-MW21-161205	12-040-07	Water	12-5-16	12-6-16	
UG-MW38D-161205	12-040-08	Water	12-5-16	12-6-16	
UG-MW19-161205	12-040-09	Water	12-5-16	12-6-16	
A9-MW1D-161205	12-040-10	Water	12-5-16	12-6-16	



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-161205					
Laboratory ID:	12-040-10					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>78</i>	<i>61-118</i>				



Date of Report: December 13, 2016
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 Project: 0183-109-01

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW24-161205					
Laboratory ID:	12-040-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	12-12-16	12-12-16	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				
Client ID:	UG-MW37R-161205					
Laboratory ID:	12-040-05					
Diesel Range Organics	ND	0.26	NWTPH-Dx	12-12-16	12-12-16	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-161205					
Laboratory ID:	12-040-01					
Dichlorodifluoromethane	ND	0.62	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	2.8	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.62	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	2.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	2.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	60	0.40	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	4.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-7-16	12-7-16	



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-161205					
Laboratory ID:	12-040-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	2.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.52	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>80-125</i>				



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW24-161205					
Laboratory ID:	12-040-02					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	0.31	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW24-161205					
Laboratory ID:	12-040-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-161205					
Laboratory ID:	12-040-03					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-161205					
Laboratory ID:	12-040-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-161205					
Laboratory ID:	12-040-04					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW3S-161205					
Laboratory ID:	12-040-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW37R-161205					
Laboratory ID:	12-040-05					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW37R-161205					
Laboratory ID:	12-040-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW38S-161205					
Laboratory ID:	12-040-06					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	0.23	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	4.4	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW38S-161205					
Laboratory ID:	12-040-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW21-161205					
Laboratory ID:	12-040-07					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	6.9	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW21-161205					
Laboratory ID:	12-040-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW38D-161205					
Laboratory ID:	12-040-08					
Dichlorodifluoromethane	ND	1.6	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	7.0	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	1.6	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	5.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	5.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	2.3	1.0	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	110	1.0	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	10	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-16	12-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW38D-161205					
Laboratory ID:	12-040-08					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	3.0	1.0	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	5.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	1.3	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW19-161205					
Laboratory ID:	12-040-09					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Chloromethane	ND	5.0	EPA 8260C	12-8-16	12-8-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Bromomethane	ND	1.3	EPA 8260C	12-8-16	12-8-16	
Chloroethane	ND	5.0	EPA 8260C	12-8-16	12-8-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Iodomethane	ND	7.0	EPA 8260C	12-8-16	12-8-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-8-16	12-8-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Chloroform	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Trichloroethene	220	1.0	EPA 8260C	12-8-16	12-8-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Dibromomethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
2-Chloroethyl Vinyl Ether	ND	18	EPA 8260C	12-8-16	12-8-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-8-16	12-8-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW19-161205					
Laboratory ID:	12-040-09					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Tetrachloroethene	3.1	1.0	EPA 8260C	12-8-16	12-8-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Bromoform	ND	5.0	EPA 8260C	12-8-16	12-8-16	
Bromobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,2-Dibromo-3-chloropropane	ND	6.5	EPA 8260C	12-8-16	12-8-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-161205					
Laboratory ID:	12-040-10					
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	0.33	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-161205					
Laboratory ID:	12-040-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>121</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>90</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W2					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	80	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-033-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				80	78	61-118		



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1212W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-12-16	12-12-16	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-040-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			106	108	50-150			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1207W1						
Dichlorodifluoromethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloromethane	ND	1.4	EPA 8260C	12-7-16	12-7-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromomethane	ND	0.31	EPA 8260C	12-7-16	12-7-16	
Chloroethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Iodomethane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-16	12-7-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chloroform	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Trichloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromomethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-7-16	12-7-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-16	12-7-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Bromoform	ND	1.0	EPA 8260C	12-7-16	12-7-16	
Bromobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,1,2,2-Tetrachloroethane	ND	0.26	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-16	12-7-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-16	12-7-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-16	12-7-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>86</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1208W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Chloromethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Bromomethane	ND	0.25	EPA 8260C	12-8-16	12-8-16	
Chloroethane	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Iodomethane	ND	1.4	EPA 8260C	12-8-16	12-8-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-8-16	12-8-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Chloroform	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Trichloroethene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Dibromomethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
2-Chloroethyl Vinyl Ether	ND	3.6	EPA 8260C	12-8-16	12-8-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-8-16	12-8-16	



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1208W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Bromoform	ND	1.0	EPA 8260C	12-8-16	12-8-16	
Bromobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-8-16	12-8-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-8-16	12-8-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1207W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.55	9.79	10.0	10.0	96	98	63-127	2	17	
Benzene	11.2	11.3	10.0	10.0	112	113	76-121	1	12	
Trichloroethene	9.57	9.21	10.0	10.0	96	92	64-114	4	15	
Toluene	10.3	10.3	10.0	10.0	103	103	82-115	0	13	
Chlorobenzene	10.3	10.2	10.0	10.0	103	102	80-115	1	14	
<i>Surrogate:</i>										
Dibromofluoromethane					83	87	77-129			
Toluene-d8					103	103	80-127			
4-Bromofluorobenzene					88	105	80-125			



Date of Report: December 13, 2016
 Samples Submitted: December 6, 2016
 Laboratory Reference: 1612-040
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1208W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.77	10.6	10.0	10.0	98	106	63-127	8	17	
Benzene	10.4	10.7	10.0	10.0	104	107	76-121	3	12	
Trichloroethene	9.17	9.02	10.0	10.0	92	90	64-114	2	15	
Toluene	9.76	10.0	10.0	10.0	98	100	82-115	2	13	
Chlorobenzene	9.90	9.94	10.0	10.0	99	99	80-115	0	14	
<i>Surrogate:</i>										
Dibromofluoromethane					87	96	77-129			
Toluene-d8					100	103	80-127			
4-Bromofluorobenzene					94	99	80-125			



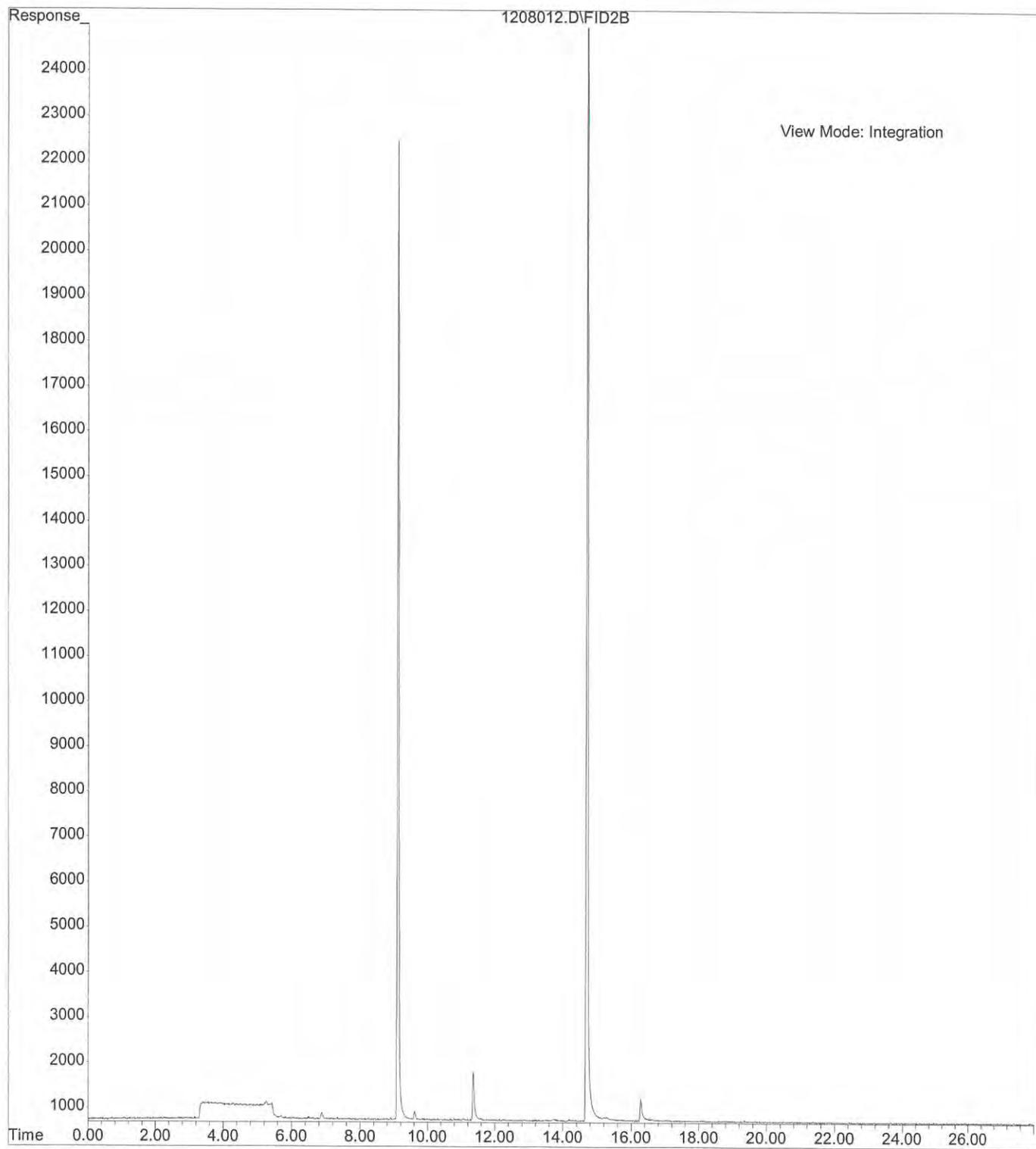


Data Qualifiers and Abbreviations

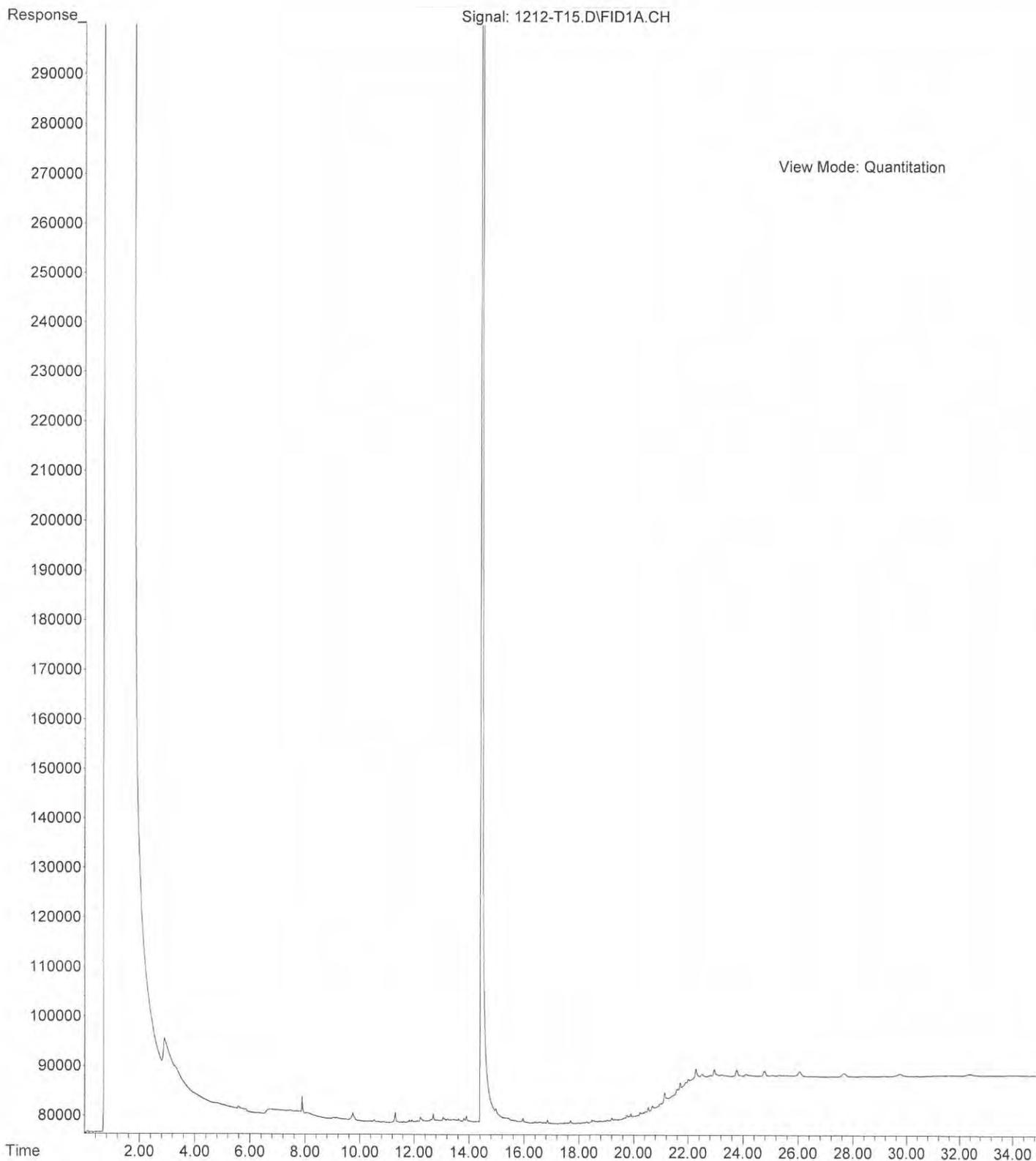
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



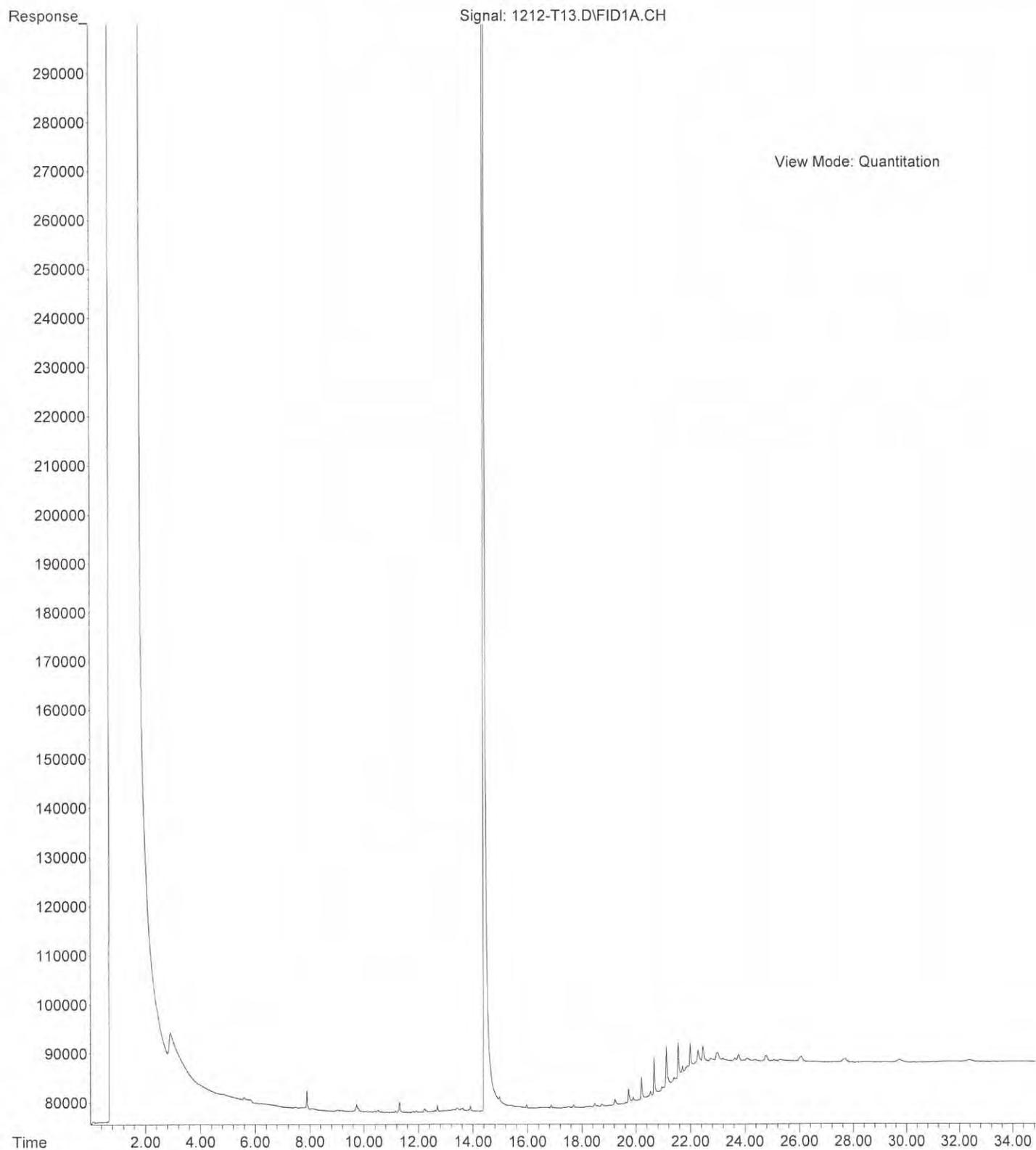
File : X:\BTEX\HOPE\DATA\H161208\1208012.D
Operator :
Acquired : 8 Dec 2016 18:42 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-040-10c
Misc Info :
Vial Number: 12



File :X:\DIESELS\TERI\DATA\T161212\1212-T15.D
Operator : ZT
Acquired : 12 Dec 2016 22:21 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 12-040-02
Misc Info :
Vial Number: 15



File :X:\DIESELS\TERI\DATA\T161212\1212-T13.D
Operator : ZT
Acquired : 12 Dec 2016 20:57 using AcqMethod T160812F.M
Instrument : Teri
Sample Name: 12-040-05
Misc Info :
Vial Number: 13





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **12-040**

Company: **GEI**
 Project Number: **0183-109-01**
 Project Name: **MW TR1**
 Project Manager: **Tricia Deome**
 Sampled by: **CG RC, PDR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		Date	Time	Comments/Special Instructions
					NWTPH-HCID	NWTPH-Gx/BTEX			
1	UG-MW1D-161205	12/5/16	1008	Water	3				
2	UG-MW24-161205	12/5/16	1255	Water	7				
3	UG-MW2D-161205	12/5/16	1533	Water	3				
4	UG-MW3S-161205	12/5/16	1025	Water	3				
5	UG-MW37R-161205	12/5/16	1315	Water	5				
6	UG-MW38S-161205	12/5/16	1550	Water	3				
7	UG-MW21-161205	12/5/16	1010	Water	3				
8	UG-MW38D-161205	12/5/16	1510	Water	3				
9	UG-MW19-161205	12/5/16	1325	Water	3				
10	UG-MW1D-161205	12/5/16	1630	Water	5				

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>[Signature]</i>	GEI	12/6/16	12:35	
Received	<i>[Signature]</i>	Alpha	12/6/16	12:25	
Relinquished	<i>[Signature]</i>	Alpha	12/6/16	14:40	
Received	<i>[Signature]</i>	Alpha	12/6/16	14:40	
Relinquished	<i>[Signature]</i>				
Received					
Relinquished					
Received					
Relinquished					

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 19, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-051

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 7, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 19, 2016
Samples Submitted: December 7, 2016
Laboratory Reference: 1612-051
Project: 0183-109-01

Case Narrative

Samples were collected on December 6, 2016 and received by the laboratory on December 7, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 19, 2016
Samples Submitted: December 7, 2016
Laboratory Reference: 1612-051
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW30D-161206	12-051-01	Water	12-6-16	12-7-16	
UG-MW9-161206	12-051-02	Water	12-6-16	12-7-16	
BA-MW2-161206	12-051-03	Water	12-6-16	12-7-16	
UG-MW30S-161206	12-051-04	Water	12-6-16	12-7-16	
A6-MW2S-161206	12-051-05	Water	12-6-16	12-7-16	
A11-MW9S-161206	12-051-06	Water	12-6-16	12-7-16	
UG-MW31-161206	12-051-07	Water	12-6-16	12-7-16	
UG-MW14-161206	12-051-08	Water	12-6-16	12-7-16	
UG-MW16-161206	12-051-09	Water	12-6-16	12-7-16	
TB-20161206	12-051-10	Water	---	12-7-16	



Date of Report: December 19, 2016
 Samples Submitted: December 7, 2016
 Laboratory Reference: 1612-051
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW31-161206					
Laboratory ID:	12-051-07					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	77	61-118				
Client ID:	UG-MW16-161206					
Laboratory ID:	12-051-09					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	75	61-118				



Date of Report: December 19, 2016
 Samples Submitted: December 7, 2016
 Laboratory Reference: 1612-051
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW30D-161206					
Laboratory ID:	12-051-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



Date of Report: December 19, 2016
 Samples Submitted: December 7, 2016
 Laboratory Reference: 1612-051
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW30D-161206					
Laboratory ID:	12-051-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 7, 2016
 Laboratory Reference: 1612-051
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW9-161206					
Laboratory ID:	12-051-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW9-161206					
Laboratory ID:	12-051-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BA-MW2-161206					
Laboratory ID:	12-051-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BA-MW2-161206					
Laboratory ID:	12-051-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW30S-161206					
Laboratory ID:	12-051-04					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	120	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW30S-161206					
Laboratory ID:	12-051-04					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	1.3	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-161206					
Laboratory ID:	12-051-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-161206					
Laboratory ID:	12-051-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-161206					
Laboratory ID:	12-051-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	38	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW9S-161206					
Laboratory ID:	12-051-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW31-161206					
Laboratory ID:	12-051-07					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	0.60	0.40	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	70	0.40	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW31-161206					
Laboratory ID:	12-051-07					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	0.61	0.40	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW14-161206					
Laboratory ID:	12-051-08					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	100	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW14-161206					
Laboratory ID:	12-051-08					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	1.2	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW16-161206					
Laboratory ID:	12-051-09					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	140	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW16-161206					
Laboratory ID:	12-051-09					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	1.4	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161206					
Laboratory ID:	12-051-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161206					
Laboratory ID:	12-051-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-051-09					
Client ID:	UG-MW16-161206					
Lead	ND	1.1	200.8	12-7-16	12-7-16	



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	80	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-033-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				81	79	61-118		



Date of Report: December 19, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1212W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1212W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



Date of Report: December 19, 2016
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 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1212W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.70	9.94	10.0	10.0	97	99	63-127	2	17	
Benzene	10.2	10.3	10.0	10.0	102	103	76-121	1	12	
Trichloroethene	9.04	9.07	10.0	10.0	90	91	64-114	0	15	
Toluene	10.6	10.9	10.0	10.0	106	109	82-115	3	13	
Chlorobenzene	10.5	11.1	10.0	10.0	105	111	80-115	6	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					96	96	77-129			
<i>Toluene-d8</i>					103	102	80-127			
<i>4-Bromofluorobenzene</i>					101	100	80-125			



Date of Report: December 19, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	63-127	5	17	
Benzene	10.8	10.5	10.0	10.0	108	105	76-121	3	12	
Trichloroethene	9.66	9.51	10.0	10.0	97	95	64-114	2	15	
Toluene	10.2	10.0	10.0	10.0	102	100	82-115	2	13	
Chlorobenzene	9.55	9.45	10.0	10.0	96	95	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	112	77-129			
<i>Toluene-d8</i>					106	105	80-127			
<i>4-Bromofluorobenzene</i>					95	94	80-125			



Date of Report: December 19, 2016
Samples Submitted: December 7, 2016
Laboratory Reference: 1612-051
Project: 0183-109-01

**TOTAL LEAD
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-7-16
Date Analyzed: 12-7-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1207WM1

Analyte	Method	Result	PQL
Lead	200.8	ND	1.1



Date of Report: December 19, 2016
Samples Submitted: December 7, 2016
Laboratory Reference: 1612-051
Project: 0183-109-01

**TOTAL LEAD
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Extracted: 12-7-16

Date Analyzed: 12-7-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-003-07

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.1	



Date of Report: December 19, 2016
Samples Submitted: December 7, 2016
Laboratory Reference: 1612-051
Project: 0183-109-01

**TOTAL LEAD
EPA 200.8
MS/MSD QUALITY CONTROL**

Date Extracted: 12-7-16

Date Analyzed: 12-7-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-003-07

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	111	104	94	105	94	1	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 19, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-064

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 8, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 19, 2016
Samples Submitted: December 8, 2016
Laboratory Reference: 1612-064
Project: 0183-109-01

Case Narrative

Samples were collected on December 7, 2016 and received by the laboratory on December 8, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 19, 2016
 Samples Submitted: December 8, 2016
 Laboratory Reference: 1612-064
 Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A9-MW1S-161207	12-064-01	Water	12-7-16	12-8-16	
UG-MW17-161207	12-064-02	Water	12-7-16	12-8-16	
Y-MW3D-161207	12-064-03	Water	12-7-16	12-8-16	
UG-MW18-161207	12-064-04	Water	12-7-16	12-8-16	
UG-MW27-161207	12-064-05	Water	12-7-16	12-8-16	
UG-MW28-161207	12-064-06	Water	12-7-16	12-8-16	
DD-MW2-161207	12-064-07	Water	12-7-16	12-8-16	
DUP-161207	12-064-08	Water	12-7-16	12-8-16	
A11-MW8S-161207	12-064-09	Water	12-7-16	12-8-16	
UG-MW27S-161207	12-064-10	Water	12-7-16	12-8-16	
UG-MW32-161207	12-064-11	Water	12-7-16	12-8-16	
TB-20161207	12-064-12	Water	---	12-8-16	



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NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1S-161207					
Laboratory ID:	12-064-01					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	76	61-118				
Client ID:	UG-MW17-161207					
Laboratory ID:	12-064-02					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	75	61-118				
Client ID:	DD-MW2-161207					
Laboratory ID:	12-064-07					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	74	61-118				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1S-161207					
Laboratory ID:	12-064-01					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	15	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	1.1	1.0	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	150	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1S-161207					
Laboratory ID:	12-064-01					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	1.0	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	5.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW17-161207					
Laboratory ID:	12-064-02					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	10	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	10	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	10	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	30	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	280	2.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	10	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW17-161207					
Laboratory ID:	12-064-02					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	2.7	2.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	10	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW3D-161207					
Laboratory ID:	12-064-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	0.97	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW3D-161207					
Laboratory ID:	12-064-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW18-161207					
Laboratory ID:	12-064-04					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	20	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	20	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	20	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	60	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	4.0	4.0	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	700	4.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW18-161207					
Laboratory ID:	12-064-04					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	14	4.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	20	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27-161207					
Laboratory ID:	12-064-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27-161207					
Laboratory ID:	12-064-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW28-161207					
Laboratory ID:	12-064-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	0.25	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW28-161207					
Laboratory ID:	12-064-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DD-MW2-161207					
Laboratory ID:	12-064-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Benzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Toluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DD-MW2-161207					
Laboratory ID:	12-064-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
o-Xylene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-161207					
Laboratory ID:	12-064-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	0.57	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	0.23	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	2.3	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	170	1.0	EPA 8260C	12-13-16	12-13-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW8S-161207					
Laboratory ID:	12-064-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	2.6	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-161207					
Laboratory ID:	12-064-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	22	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW27S-161207					
Laboratory ID:	12-064-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW32-161207					
Laboratory ID:	12-064-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	0.20	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	43	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW32-161207					
Laboratory ID:	12-064-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161207					
Laboratory ID:	12-064-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161207					
Laboratory ID:	12-064-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161207					
Laboratory ID:	12-064-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161207					
Laboratory ID:	12-064-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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TOTAL LEAD
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	12-064-02					
Client ID:	UG-MW17-161207					
Lead	ND	1.0	200.8	12-12-16	12-12-16	



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W2					
Gasoline	ND	100	NWTPH-Gx	12-8-16	12-8-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	80	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-033-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				80	78	61-118		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1212W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloromethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Iodomethane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chloroform	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Benzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Trichloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromomethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Toluene	ND	1.0	EPA 8260C	12-12-16	12-12-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-12-16	12-12-16	



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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1212W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-12-16	12-12-16	
o-Xylene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Bromoform	ND	1.0	EPA 8260C	12-12-16	12-12-16	
Bromobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-12-16	12-12-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-12-16	12-12-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-12-16	12-12-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1213W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Chloromethane	ND	1.0	EPA 8260C	12-13-16	12-13-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Bromomethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Chloroethane	ND	1.0	EPA 8260C	12-13-16	12-13-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Iodomethane	ND	1.0	EPA 8260C	12-13-16	12-13-16	
Methylene Chloride	ND	3.0	EPA 8260C	12-13-16	12-13-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Chloroform	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Trichloroethene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Dibromomethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-13-16	12-13-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-13-16	12-13-16	



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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1213W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Bromoform	ND	1.0	EPA 8260C	12-13-16	12-13-16	
Bromobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-13-16	12-13-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-13-16	12-13-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-13-16	12-13-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1212W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.70	9.94	10.0	10.0	97	99	63-127	2	17	
Benzene	10.2	10.3	10.0	10.0	102	103	76-121	1	12	
Trichloroethene	9.04	9.07	10.0	10.0	90	91	64-114	0	15	
Toluene	10.6	10.9	10.0	10.0	106	109	82-115	3	13	
Chlorobenzene	10.5	11.1	10.0	10.0	105	111	80-115	6	14	
<i>Surrogate:</i>										
Dibromofluoromethane					96	96	77-129			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					101	100	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1213W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.56	9.41	10.0	10.0	96	94	63-127	2	17	
Benzene	10.2	10.2	10.0	10.0	102	102	76-121	0	12	
Trichloroethene	8.57	8.48	10.0	10.0	86	85	64-114	1	15	
Toluene	10.4	10.3	10.0	10.0	104	103	82-115	1	13	
Chlorobenzene	10.6	10.2	10.0	10.0	106	102	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					96	97	77-129			
Toluene-d8					100	101	80-127			
4-Bromofluorobenzene					99	100	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1216W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	63-127	5	17	
Benzene	10.8	10.5	10.0	10.0	108	105	76-121	3	12	
Trichloroethene	9.66	9.51	10.0	10.0	97	95	64-114	2	15	
Toluene	10.2	10.0	10.0	10.0	102	100	82-115	2	13	
Chlorobenzene	9.55	9.45	10.0	10.0	96	95	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	112	77-129			
<i>Toluene-d8</i>					106	105	80-127			
<i>4-Bromofluorobenzene</i>					95	94	80-125			



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**TOTAL LEAD
EPA 200.8
METHOD BLANK QUALITY CONTROL**

Date Extracted: 12-12-16
Date Analyzed: 12-12-16

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB1212WH1

Analyte	Method	Result	PQL
Lead	200.8	ND	1.0



Date of Report: December 19, 2016
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Laboratory Reference: 1612-064
Project: 0183-109-01

**TOTAL LEAD
EPA 200.8
DUPLICATE QUALITY CONTROL**

Date Extracted: 12-12-16

Date Analyzed: 12-12-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-064-02

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	ND	ND	NA	1.0	



Date of Report: December 19, 2016
Samples Submitted: December 8, 2016
Laboratory Reference: 1612-064
Project: 0183-109-01

**TOTAL LEAD
EPA 200.8
MS/MSD QUALITY CONTROL**

Date Extracted: 12-12-16

Date Analyzed: 12-12-16

Matrix: Water

Units: ug/L (ppb)

Lab ID: 12-064-02

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	100	92.1	92	93.6	94	2	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: **12-064**

Company: **GEI**
 Project Number: **0183-1001-01**
 Project Name: **WWT-RI**
 Project Manager: **Tricia DeDime**
 Sampled by: **CSG, RC, PDR**

Lab ID Sample Identification Date Sampled Time Sampled Matrix

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	A9-MW15-161207	12/7/16	9:52	Water 5
2	UG-MW17-161207		11:46	Water 6
3	Y-MW3D-161207		15:25	Water 3
4	UG-MW18-161207		15:20	Water 3
5	UG-MW27-161207		17:20	Water 3
6	UG-MW28-161207		10:50	Water 3
7	DD-MW2-161207		8:30	Water 5
8	Dup-161207		12:00	Water 3
8	A11-MW85-161207		8:23	Water 3
10	UG-MW27S-161207		13:50	Water 3

Number of Containers	
NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	X
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	X
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
Total Lead	X
BTEX	
Chlorobenzene	
% Moisture	

Signature Company Date Time Comments/Special Instructions

Relinquished	<i>[Signature]</i>	GEI	12/8/16	4:05 PM	<input checked="" type="checkbox"/> Added 12/16/16. DB (STA)
Received	<i>[Signature]</i>	SPEEDY	12-8-16	8 AM	
Relinquished	<i>[Signature]</i>	SPEEDY	12-8-16	10:20 AM	
Received	<i>[Signature]</i>	QBE	12/8/16	10:20	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



Onsite Environmental Inc.

Analytical Laboratory/ Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)
(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other)

Laboratory Number: **12-064**

Company: **GEI**

Project Number: **0183109-01**

Project Name: **WT-R1**

Project Manager: **Tricia DeLme**

Sampled by: **CSE, R, PDR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
11	UG-NW32-161207	12/16	1440	Water
12	TR-20161207	—	—	↓

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	<input checked="" type="checkbox"/>
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEI	12/18/16	9:30 AM	
<i>[Signature]</i>	SPEEDY	12-8-16	8 AM	
<i>[Signature]</i>	SPEEDY	12-8-16	10:20 AM	
<i>[Signature]</i>	QSE	12/16/16	10:00	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 19, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-087

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 9, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 19, 2016
Samples Submitted: December 9, 2016
Laboratory Reference: 1612-087
Project: 0183-109-01

Case Narrative

Samples were collected on December 8 and 9, 2016 and received by the laboratory on December 9, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 19, 2016
Samples Submitted: December 9, 2016
Laboratory Reference: 1612-087
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Y-MW3S-161208	12-087-01	Water	12-8-16	12-9-16	
Y-MW1D-161209	12-087-02	Water	12-9-16	12-9-16	
UG-MW20-161209	12-087-03	Water	12-9-16	12-9-16	
Y-MW1S-161209	12-087-04	Water	12-9-16	12-9-16	
Y-MW7S-161209	12-087-05	Water	12-9-16	12-9-16	
TB-20161209	12-087-06	Water	---	12-9-16	



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW3S-161208					
Laboratory ID:	12-087-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	0.23	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	7.6	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW3S-161208					
Laboratory ID:	12-087-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW1D-161209					
Laboratory ID:	12-087-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	0.23	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW1D-161209					
Laboratory ID:	12-087-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW20-161209					
Laboratory ID:	12-087-03					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	5.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	5.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	5.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	2.6	1.0	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	160	1.0	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-14-16	12-14-16	



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW20-161209					
Laboratory ID:	12-087-03					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	5.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW1S-161209					
Laboratory ID:	12-087-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	15	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW1S-161209					
Laboratory ID:	12-087-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW7S-161209					
Laboratory ID:	12-087-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	12	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW7S-161209					
Laboratory ID:	12-087-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161209					
Laboratory ID:	12-087-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161209					
Laboratory ID:	12-087-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1214W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1214W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1216W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.83	10.0	10.0	10.0	88	100	63-127	12	17	
Benzene	9.49	10.7	10.0	10.0	95	107	76-121	12	12	
Trichloroethene	8.10	8.99	10.0	10.0	81	90	64-114	10	15	
Toluene	9.66	10.8	10.0	10.0	97	108	82-115	11	13	
Chlorobenzene	10.0	10.9	10.0	10.0	100	109	80-115	9	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>94</i>	<i>96</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>101</i>	<i>101</i>	<i>80-125</i>			



Date of Report: December 19, 2016
 Samples Submitted: December 9, 2016
 Laboratory Reference: 1612-087
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	63-127	5	17	
Benzene	10.8	10.5	10.0	10.0	108	105	76-121	3	12	
Trichloroethene	9.66	9.51	10.0	10.0	97	95	64-114	2	15	
Toluene	10.2	10.0	10.0	10.0	102	100	82-115	2	13	
Chlorobenzene	9.55	9.45	10.0	10.0	96	95	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	112	77-129			
<i>Toluene-d8</i>					106	105	80-127			
<i>4-Bromofluorobenzene</i>					95	94	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA OnSite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3981 • www.onsite-env.com

Chain of Custody

Turnaround Request
(in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

(other) _____

Laboratory Number: **12-087**

Company: **GEI**

Project Number: **0183-1009-01**

Project Name: **WT-RI**

Project Manager: **Tricia Declime**

Sampled by: **CSG, RC, PDR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Y-NW3S-161208	12/8/16	917	Water	3
2	Y-NW1D-161209	12/9/16	1121	Water	3
3	VG-NW20-161209	12/9/16	1240	Water	3
4	Y-NW1S-161209	12/9/16	1255	Water	3
5	Y-NW7S-161209	12/9/16	1125	Water	3
6	TR-20161209	—	—	W	1

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3						X												
3						X												
3						X												
3						X												
3						X												
1						X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEI	12/9/16	3:16PM	<input checked="" type="checkbox"/> Added 12/16/16. DB (STH)
<i>[Signature]</i>	ALPHA	12/9/16	3:15PM	
<i>[Signature]</i>	ALPHA	12/9/16	4:11PM	
<i>[Signature]</i>	ORR	12/9/16	1617	

Relinquished

Received

Relinquished

Received

Relinquished

Received

Reviewed/Date

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 20, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-098

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 13, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 20, 2016
Samples Submitted: December 13, 2016
Laboratory Reference: 1612-098
Project: 0183-109-01

Case Narrative

Samples were collected on December 12, 2016 and received by the laboratory on December 13, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 20, 2016
Samples Submitted: December 13, 2016
Laboratory Reference: 1612-098
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Y-MW2S-161212	12-098-01	Water	12-12-16	12-13-16	
JS-MW6S-161212	12-098-02	Water	12-12-16	12-13-16	
A11-MW10S-161212	12-098-03	Water	12-12-16	12-13-16	
A11-MW10D-161212	12-098-04	Water	12-12-16	12-13-16	
UG-MW23-161212	12-098-05	Water	12-12-16	12-13-16	
UG-MW25D-161212	12-098-06	Water	12-12-16	12-13-16	
DUP-161212	12-098-07	Water	12-12-16	12-13-16	
UG-MW26-161212	12-098-08	Water	12-12-16	12-13-16	
UG-MW25S-161212	12-098-09	Water	12-12-16	12-13-16	
TB-20161212	12-098-10	Water	12-12-16	12-13-16	



Date of Report: December 20, 2016
 Samples Submitted: December 13, 2016
 Laboratory Reference: 1612-098
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW6S-161212					
Laboratory ID:	12-098-02					
Gasoline	ND	100	NWTPH-Gx	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>88</i>	<i>61-118</i>				



Date of Report: December 20, 2016
 Samples Submitted: December 13, 2016
 Laboratory Reference: 1612-098
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW2S-161212					
Laboratory ID:	12-098-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	8.7	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



Date of Report: December 20, 2016
 Samples Submitted: December 13, 2016
 Laboratory Reference: 1612-098
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Y-MW2S-161212					
Laboratory ID:	12-098-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



Date of Report: December 20, 2016
 Samples Submitted: December 13, 2016
 Laboratory Reference: 1612-098
 Project: 0183-109-01

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW6S-161212					
Laboratory ID:	12-098-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Benzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Toluene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW6S-161212					
Laboratory ID:	12-098-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-14-16	12-14-16	
o-Xylene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10S-161212					
Laboratory ID:	12-098-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10S-161212					
Laboratory ID:	12-098-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-161212					
Laboratory ID:	12-098-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW10D-161212					
Laboratory ID:	12-098-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW23-161212					
Laboratory ID:	12-098-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	4.5	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW23-161212					
Laboratory ID:	12-098-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW25D-161212					
Laboratory ID:	12-098-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	1.4	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW25D-161212					
Laboratory ID:	12-098-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW26-161212					
Laboratory ID:	12-098-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW26-161212					
Laboratory ID:	12-098-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW25S-161212					
Laboratory ID:	12-098-09					
Dichlorodifluoromethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	50	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	10	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	50	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	10	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	26	10	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	50	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	50	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	22	10	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	10	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	15	10	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	10	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	10	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	1000	10	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	10	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	10	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	90	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW25S-161212					
Laboratory ID:	12-098-09					
1,1,2-Trichloroethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	10	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	10	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	50	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	10	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	10	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	10	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161212					
Laboratory ID:	12-098-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	1.3	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161212					
Laboratory ID:	12-098-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161212					
Laboratory ID:	12-098-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161212					
Laboratory ID:	12-098-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				
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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W2					
Gasoline	ND	100	NWTPH-Gx	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	76	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-097-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				86	86	61-118		



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 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1214W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloromethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Iodomethane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chloroform	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Benzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Trichloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromomethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-14-16	12-14-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Toluene	ND	1.0	EPA 8260C	12-14-16	12-14-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-14-16	12-14-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1214W2				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-14-16	12-14-16	
o-Xylene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Bromoform	ND	1.0	EPA 8260C	12-14-16	12-14-16	
Bromobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-14-16	12-14-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-14-16	12-14-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-14-16	12-14-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1215W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1215W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1214W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	9.81	10.0	10.0	101	98	63-127	3	17	
Benzene	10.7	10.5	10.0	10.0	107	105	76-121	2	12	
Trichloroethene	9.87	9.66	10.0	10.0	99	97	64-114	2	15	
Toluene	10.5	10.2	10.0	10.0	105	102	82-115	3	13	
Chlorobenzene	10.4	10.0	10.0	10.0	104	100	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					95	97	77-129			
Toluene-d8					101	106	80-127			
4-Bromofluorobenzene					98	96	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1215W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	9.18	10.0	10.0	102	92	63-127	11	17	
Benzene	11.2	10.6	10.0	10.0	112	106	76-121	6	12	
Trichloroethene	10.1	9.15	10.0	10.0	101	92	64-114	10	15	
Toluene	10.5	10.1	10.0	10.0	105	101	82-115	4	13	
Chlorobenzene	10.4	9.49	10.0	10.0	104	95	80-115	9	14	
<i>Surrogate:</i>										
Dibromofluoromethane					97	103	77-129			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					96	99	80-125			



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 20, 2016
 Samples Submitted: December 13, 2016
 Laboratory Reference: 1612-098
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	63-127	5	17	
Benzene	10.8	10.5	10.0	10.0	108	105	76-121	3	12	
Trichloroethene	9.66	9.51	10.0	10.0	97	95	64-114	2	15	
Toluene	10.2	10.0	10.0	10.0	102	100	82-115	2	13	
Chlorobenzene	9.55	9.45	10.0	10.0	96	95	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	112	77-129			
<i>Toluene-d8</i>					106	105	80-127			
<i>4-Bromofluorobenzene</i>					95	94	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 19, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-113

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 14, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 19, 2016
Samples Submitted: December 14, 2016
Laboratory Reference: 1612-113
Project: 0183-109-01

Case Narrative

Samples were collected on December 13, 2016 and received by the laboratory on December 14, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW29S-161213	12-113-01	Water	12-13-16	12-14-16	
UG-MW4-161213	12-113-02	Water	12-13-16	12-14-16	
UG-MW3-161213	12-113-03	Water	12-13-16	12-14-16	
DD-MW1-161213	12-113-04	Water	12-13-16	12-14-16	
UG-MW8-161213	12-113-05	Water	12-13-16	12-14-16	
UG-MW33-161213	12-113-06	Water	12-13-16	12-14-16	
UG-MW36D-161213	12-113-07	Water	12-13-16	12-14-16	
UG-MW22-161213	12-113-08	Water	12-13-16	12-14-16	
UG-MW7-161213	12-113-09	Water	12-13-16	12-14-16	
UG-MW35-161213	12-113-10	Water	12-13-16	12-14-16	
UG-MW36-161213	12-113-11	Water	12-13-16	12-14-16	
TB-20161213	12-113-12	Water	---	12-14-16	



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW29S-161213					
Laboratory ID:	12-113-01					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	4.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	52	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	3.6	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-16-16	12-16-16	



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW29S-161213					
Laboratory ID:	12-113-01					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4-161213					
Laboratory ID:	12-113-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	0.42	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4-161213					
Laboratory ID:	12-113-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW3-161213					
Laboratory ID:	12-113-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	0.30	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	0.32	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	19	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW3-161213					
Laboratory ID:	12-113-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DD-MW1-161213					
Laboratory ID:	12-113-04					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	5.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	5.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	5.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	10	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	100	1.0	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	8.5	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DD-MW1-161213					
Laboratory ID:	12-113-04					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	5.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW8-161213					
Laboratory ID:	12-113-05					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	4.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	0.41	0.40	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	55	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	3.6	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-16-16	12-16-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW8-161213					
Laboratory ID:	12-113-05					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	2.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW33-161213					
Laboratory ID:	12-113-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW33-161213					
Laboratory ID:	12-113-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-161213					
Laboratory ID:	12-113-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	0.87	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36D-161213					
Laboratory ID:	12-113-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW22-161213					
Laboratory ID:	12-113-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	13	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW22-161213					
Laboratory ID:	12-113-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW7-161213					
Laboratory ID:	12-113-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW7-161213					
Laboratory ID:	12-113-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW35-161213					
Laboratory ID:	12-113-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW35-161213					
Laboratory ID:	12-113-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36-161213					
Laboratory ID:	12-113-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW36-161213					
Laboratory ID:	12-113-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>117</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>82</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161213					
Laboratory ID:	12-113-12					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



Date of Report: December 19, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161213					
Laboratory ID:	12-113-12					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>117</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1215W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloromethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Iodomethane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-15-16	12-15-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chloroform	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Trichloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromomethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chloroethyl Vinyl Ether	ND	1.7	EPA 8260C	12-15-16	12-15-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-15-16	12-15-16	



Date of Report: December 19, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1215W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Bromoform	ND	1.0	EPA 8260C	12-15-16	12-15-16	
Bromobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-15-16	12-15-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-15-16	12-15-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-15-16	12-15-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



Date of Report: December 19, 2016
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HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloromethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Iodomethane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-16-16	12-16-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chloroform	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Trichloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromomethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chloroethyl Vinyl Ether	ND	1.8	EPA 8260C	12-16-16	12-16-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-16-16	12-16-16	



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1216W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Bromoform	ND	1.0	EPA 8260C	12-16-16	12-16-16	
Bromobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-16-16	12-16-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-16-16	12-16-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1215W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.2	9.18	10.0	10.0	102	92	63-127	11	17	
Benzene	11.2	10.6	10.0	10.0	112	106	76-121	6	12	
Trichloroethene	10.1	9.15	10.0	10.0	101	92	64-114	10	15	
Toluene	10.5	10.1	10.0	10.0	105	101	82-115	4	13	
Chlorobenzene	10.4	9.49	10.0	10.0	104	95	80-115	9	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					97	103	77-129			
<i>Toluene-d8</i>					102	103	80-127			
<i>4-Bromofluorobenzene</i>					96	99	80-125			



Date of Report: December 19, 2016
 Samples Submitted: December 14, 2016
 Laboratory Reference: 1612-113
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1216W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	63-127	5	17	
Benzene	10.8	10.5	10.0	10.0	108	105	76-121	3	12	
Trichloroethene	9.66	9.51	10.0	10.0	97	95	64-114	2	15	
Toluene	10.2	10.0	10.0	10.0	102	100	82-115	2	13	
Chlorobenzene	9.55	9.45	10.0	10.0	96	95	80-115	1	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					106	112	77-129			
<i>Toluene-d8</i>					106	105	80-127			
<i>4-Bromofluorobenzene</i>					95	94	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-118

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 15, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2016
Samples Submitted: December 15, 2016
Laboratory Reference: 1612-118
Project: 0183-109-01

Case Narrative

Samples were collected on December 14, 2016 and received by the laboratory on December 15, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH-Gx Analysis

The gasoline result is mainly attributed to a single peak (Chlorobenzene) for sample JP-MW2-161214.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: December 28, 2016
Samples Submitted: December 15, 2016
Laboratory Reference: 1612-118
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
JS-MW7A-161214	12-118-01	Water	12-14-16	12-15-16	
JS-MW6D-161214	12-118-02	Water	12-14-16	12-15-16	
JP-MW1R-161214	12-118-03	Water	12-14-16	12-15-16	
UG-MW1-161214	12-118-04	Water	12-14-16	12-15-16	
JP-MW2-161214	12-118-05	Water	12-14-16	12-15-16	
DUP-161214	12-118-06	Water	12-14-16	12-15-16	
JS-MW5-161214	12-118-07	Water	12-14-16	12-15-16	
A11-MW11D-161214	12-118-08	Water	12-14-16	12-15-16	
A11-MW11S-161214	12-118-09	Water	12-14-16	12-15-16	
UG-MW4S-161214	12-118-10	Water	12-14-16	12-15-16	
TB-20161214	12-118-11	Water	12-14-16	12-15-16	



Date of Report: December 28, 2016
 Samples Submitted: December 15, 2016
 Laboratory Reference: 1612-118
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW6D-161214					
Laboratory ID:	12-118-02					
Gasoline	ND	100	NWTPH-Gx	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	61-118				
Client ID:	JP-MW1R-161214					
Laboratory ID:	12-118-03					
Gasoline	ND	100	NWTPH-Gx	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	61-118				
Client ID:	UG-MW1-161214					
Laboratory ID:	12-118-04					
Gasoline	ND	100	NWTPH-Gx	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	61-118				
Client ID:	JP-MW2-161214					
Laboratory ID:	12-118-05					
Gasoline	380	100	NWTPH-Gx	12-16-16	12-16-16	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	61-118				
Client ID:	JS-MW5-161214					
Laboratory ID:	12-118-07					
Gasoline	ND	100	NWTPH-Gx	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	61-118				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW7A-161214					
Laboratory ID:	12-118-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	0.29	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW7A-161214					
Laboratory ID:	12-118-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW6D-161214					
Laboratory ID:	12-118-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Benzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	1.7	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Toluene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW6D-161214					
Laboratory ID:	12-118-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-19-16	12-19-16	
o-Xylene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JP-MW1R-161214					
Laboratory ID:	12-118-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	0.30	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Benzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	1.5	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Toluene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JP-MW1R-161214					
Laboratory ID:	12-118-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-19-16	12-19-16	
o-Xylene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW1-161214					
Laboratory ID:	12-118-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	8.2	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	0.59	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	0.89	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	19	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Benzene	39	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	1.3	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Toluene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW1-161214					
Laboratory ID:	12-118-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	0.29	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-19-16	12-19-16	
o-Xylene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JP-MW2-161214					
Laboratory ID:	12-118-05					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	20	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	110	4.0	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	20	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	8.4	4.0	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	20	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	20	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	39	4.0	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	580	4.0	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Benzene	41	4.0	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	400	4.0	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Toluene	ND	20	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JP-MW2-161214					
Laboratory ID:	12-118-05					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	150	4.0	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Ethylbenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
m,p-Xylene	ND	8.0	EPA 8260C	12-19-16	12-19-16	
o-Xylene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	20	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW5-161214					
Laboratory ID:	12-118-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	0.64	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Benzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	3.1	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Toluene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW5-161214					
Laboratory ID:	12-118-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	0.46	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-19-16	12-19-16	
o-Xylene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-161214					
Laboratory ID:	12-118-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	0.40	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	31	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11D-161214					
Laboratory ID:	12-118-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11S-161214					
Laboratory ID:	12-118-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A11-MW11S-161214					
Laboratory ID:	12-118-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-161214					
Laboratory ID:	12-118-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	4.2	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW4S-161214					
Laboratory ID:	12-118-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161214					
Laboratory ID:	12-118-06					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	20	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	120	4.0	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	20	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	8.9	4.0	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	20	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	43	4.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	630	4.0	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	400	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161214					
Laboratory ID:	12-118-06					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	150	4.0	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	20	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161214					
Laboratory ID:	12-118-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161214					
Laboratory ID:	12-118-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W2					
Gasoline	ND	100	NWTPH-Gx	12-16-16	12-16-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-118-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				84	87	61-118		



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**VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1219W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloromethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Iodomethane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chloroform	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Benzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Trichloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromomethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Toluene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-19-16	12-19-16	



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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1219W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-19-16	12-19-16	
o-Xylene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Bromoform	ND	1.0	EPA 8260C	12-19-16	12-19-16	
Bromobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-19-16	12-19-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-19-16	12-19-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 15, 2016
 Laboratory Reference: 1612-118
 Project: 0183-109-01

**VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1219W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.45	8.98	10.0	10.0	95	90	63-127	5	17	
Benzene	9.91	9.82	10.0	10.0	99	98	76-121	1	12	
Trichloroethene	8.08	7.54	10.0	10.0	81	75	64-114	7	15	
Toluene	9.69	9.32	10.0	10.0	97	93	82-115	4	13	
Chlorobenzene	10.1	9.62	10.0	10.0	101	96	80-115	5	14	
<i>Surrogate:</i>										
Dibromofluoromethane					99	103	77-129			
Toluene-d8					100	103	80-127			
4-Bromofluorobenzene					103	102	80-125			



Date of Report: December 28, 2016
 Samples Submitted: December 15, 2016
 Laboratory Reference: 1612-118
 Project: 0183-109-01

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1227W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



Date of Report: December 28, 2016
 Samples Submitted: December 15, 2016
 Laboratory Reference: 1612-118
 Project: 0183-109-01

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1227W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 15, 2016
 Laboratory Reference: 1612-118
 Project: 0183-109-01

**VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1227W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.72	10.1	10.0	10.0	97	101	63-127	4	17	
Benzene	10.6	11.3	10.0	10.0	106	113	76-121	6	12	
Trichloroethene	7.85	8.11	10.0	10.0	79	81	64-114	3	15	
Toluene	9.85	10.3	10.0	10.0	99	103	82-115	4	13	
Chlorobenzene	9.83	10.3	10.0	10.0	98	103	80-115	5	14	
<i>Surrogate:</i>										
Dibromofluoromethane					104	103	77-129			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					103	100	80-125			



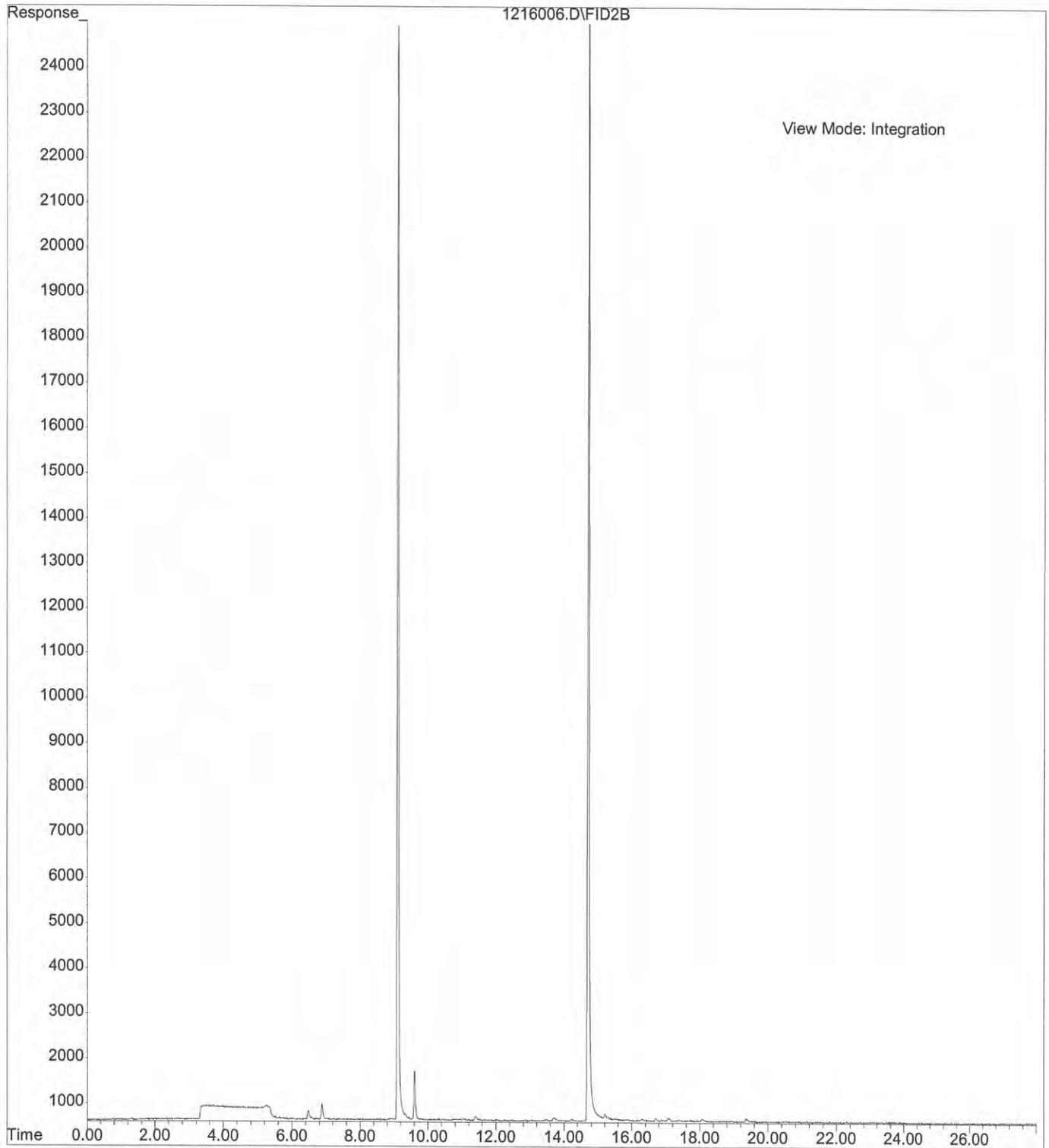


Data Qualifiers and Abbreviations

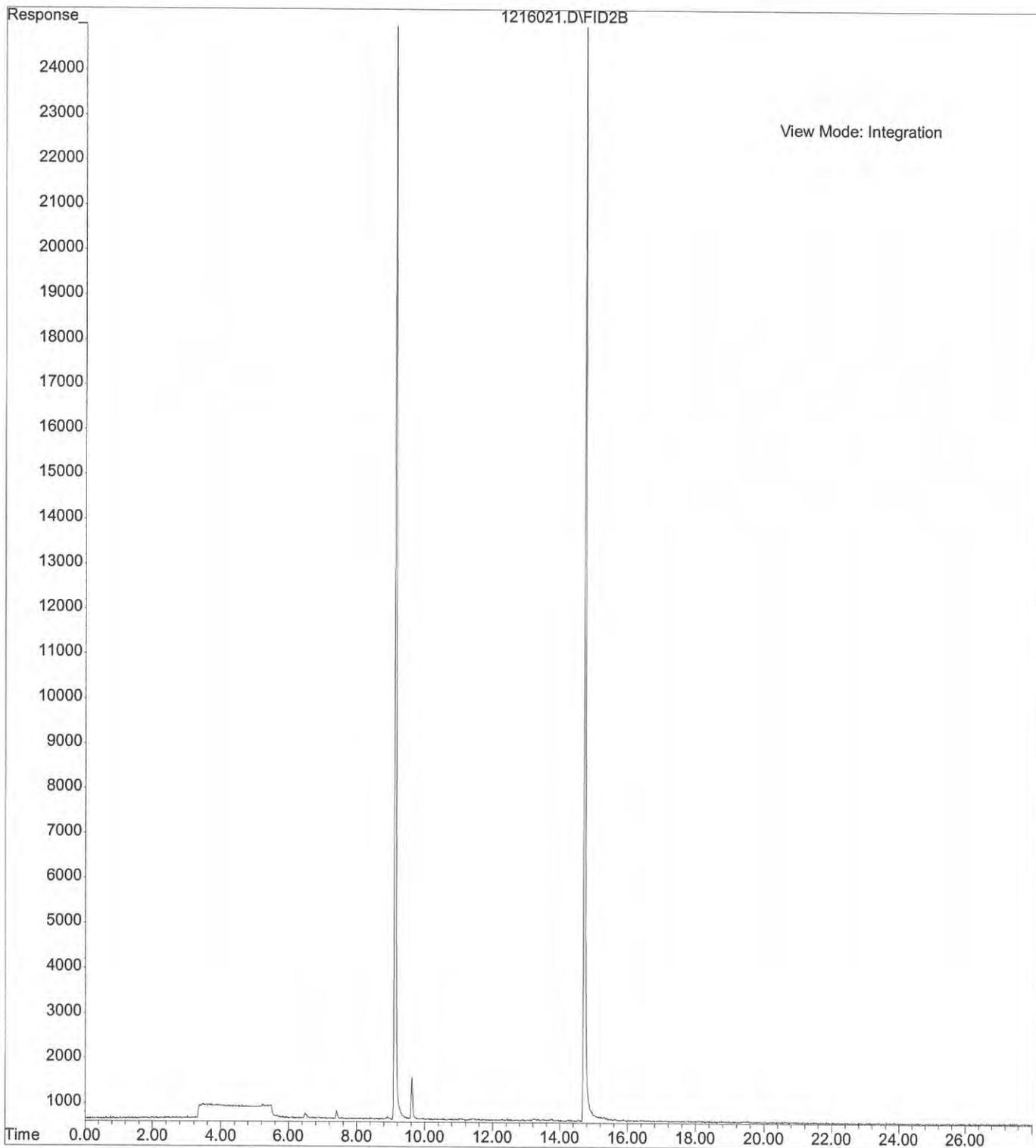
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z - The gasoline result is mainly attributed to a single peak (Chlorobenzene).
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



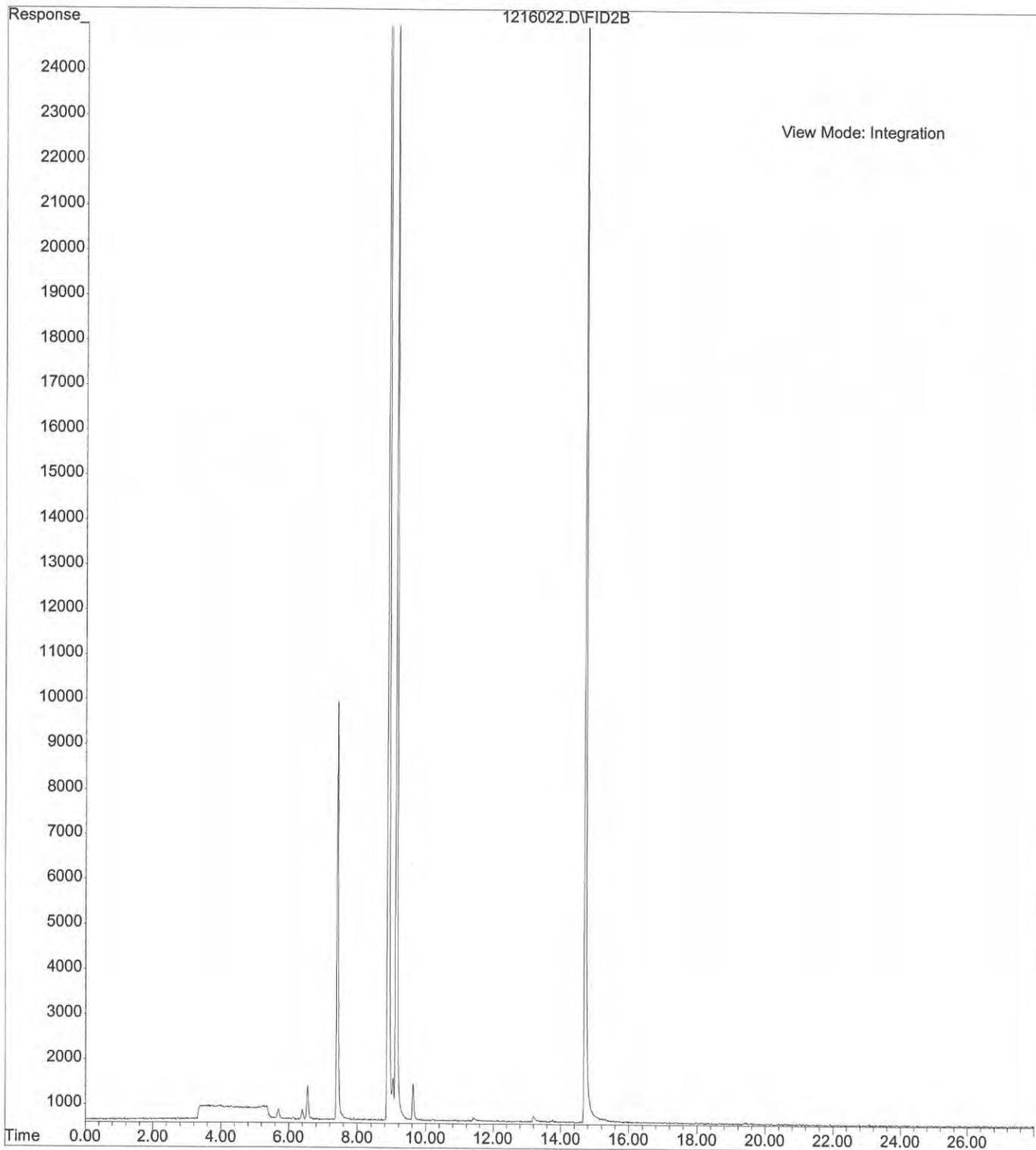
File : X:\BTEX\HOPE\DATA\H161216\1216006.D
Operator :
Acquired : 16 Dec 2016 10:19 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-118-02b
Misc Info :
Vial Number: 6



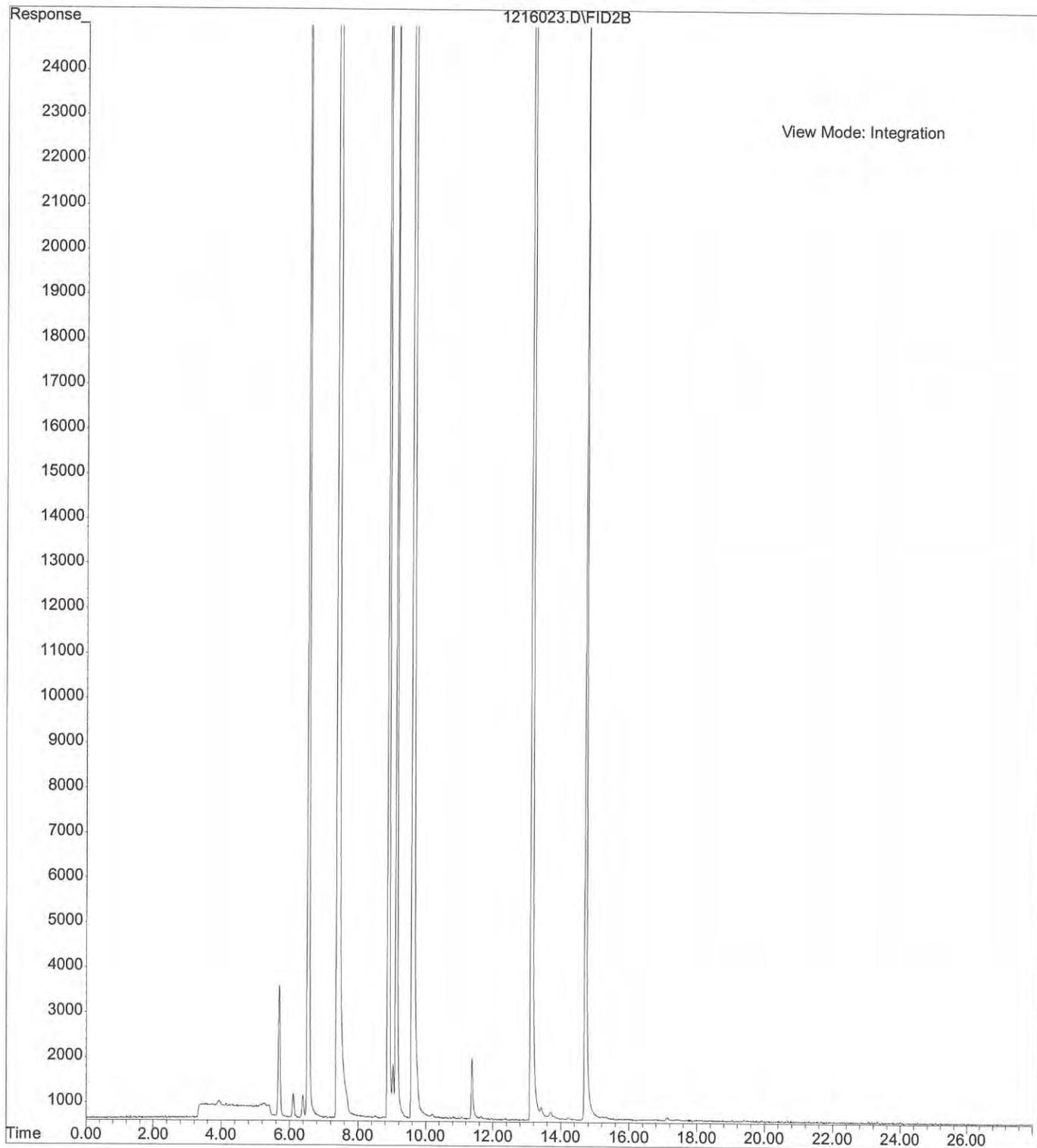
File : X:\BTEX\HOPE\DATA\H161216\1216021.D
Operator :
Acquired : 16 Dec 2016 18:51 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-118-03b
Misc Info :
Vial Number: 21



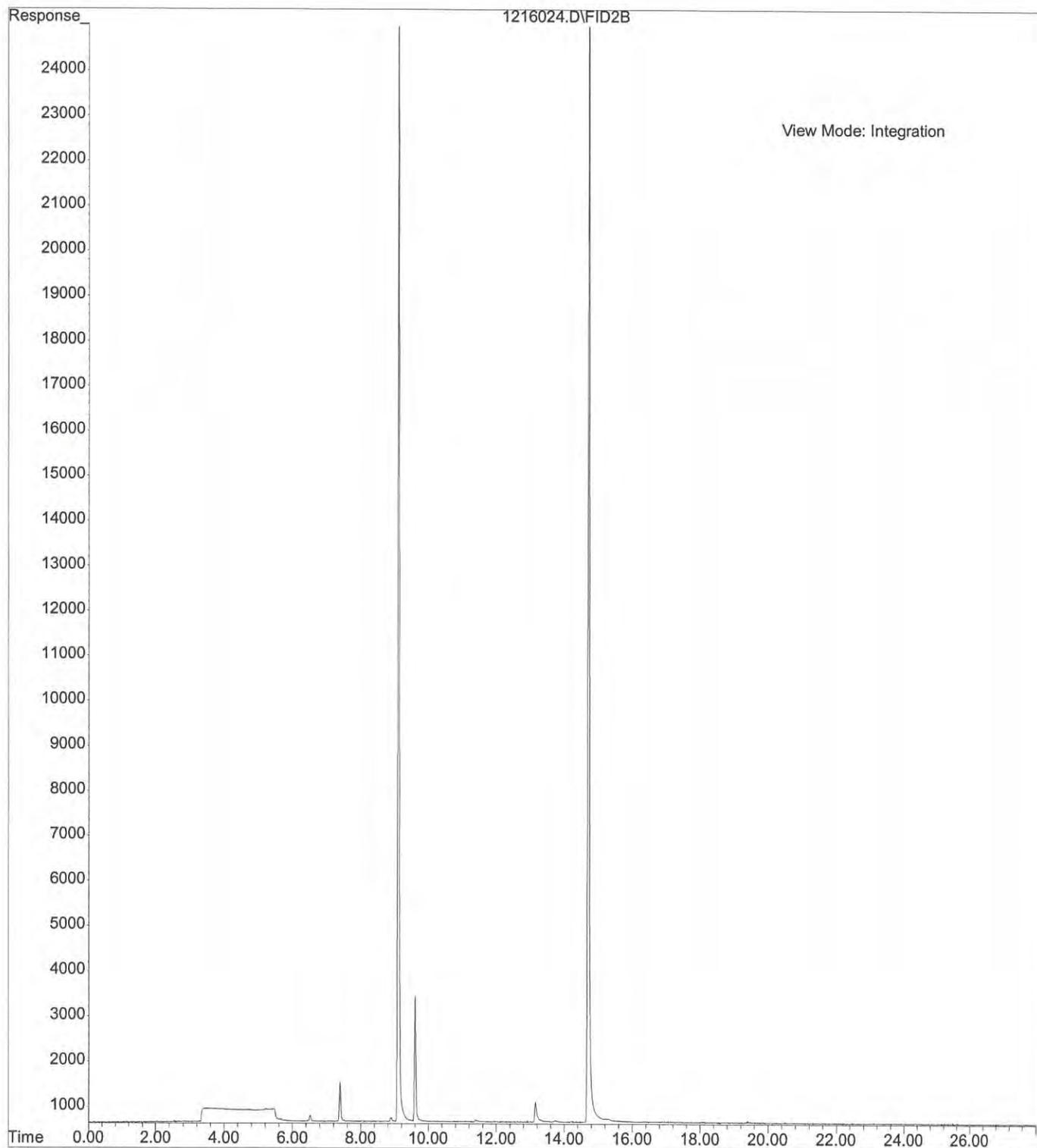
File : X:\BTEX\HOPE\DATA\H161216\1216022.D
Operator :
Acquired : 16 Dec 2016 19:24 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-118-04b
Misc Info :
Vial Number: 22



File : X:\BTEX\HOPE\DATA\H161216\1216023.D
Operator :
Acquired : 16 Dec 2016 19:58 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-118-05b
Misc Info :
Vial Number: 23



File : X:\BTEX\HOPE\DATA\H161216\1216024.D
Operator :
Acquired : 16 Dec 2016 20:32 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-118-07b
Misc Info :
Vial Number: 24





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 27, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-130

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 16, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 27, 2016
Samples Submitted: December 16, 2016
Laboratory Reference: 1612-130
Project: 0183-109-01

Case Narrative

Samples were collected on December 15, 2016 and received by the laboratory on December 16, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 27, 2016
Samples Submitted: December 16, 2016
Laboratory Reference: 1612-130
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
CR-MW12-161215	12-130-01	Water	12-15-16	12-16-16	
JS-MW2-161215	12-130-02	Water	12-15-16	12-16-16	
JS-MW3-161215	12-130-03	Water	12-15-16	12-16-16	
JS-MW3S-161215	12-130-04	Water	12-15-16	12-16-16	
JS-MW1-161215	12-130-05	Water	12-15-16	12-16-16	
BL-MW4-161215	12-130-06	Water	12-15-16	12-16-16	
TB-20161215	12-130-07	Water	---	12-16-16	



Date of Report: December 27, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-130
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SH-MW7-161215					
Laboratory ID:	12-130-06					
Gasoline	ND	100	NWTPH-Gx	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>89</i>	<i>61-118</i>				



Date of Report: December 27, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-130
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW12-161215					
Laboratory ID:	12-130-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	0.29	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



Date of Report: December 27, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-130
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW12-161215					
Laboratory ID:	12-130-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



Date of Report: December 27, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-130
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW2-161215					
Laboratory ID:	12-130-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	12	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW2-161215					
Laboratory ID:	12-130-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW3-161215					
Laboratory ID:	12-130-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW3-161215					
Laboratory ID:	12-130-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW3S-161215					
Laboratory ID:	12-130-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW3S-161215					
Laboratory ID:	12-130-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW1-161215					
Laboratory ID:	12-130-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	2.8	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW1-161215					
Laboratory ID:	12-130-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW4-161215					
Laboratory ID:	12-130-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	1.7	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	9.2	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	0.90	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW4-161215					
Laboratory ID:	12-130-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161215					
Laboratory ID:	12-130-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161215					
Laboratory ID:	12-130-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1219W1					
Gasoline	ND	100	NWTPH-Gx	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-123-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				95	95	61-118		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1220W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.36	10.0	10.0	10.0	94	100	63-127	7	17	
Benzene	10.2	10.8	10.0	10.0	102	108	76-121	6	12	
Trichloroethene	7.65	8.47	10.0	10.0	77	85	64-114	10	15	
Toluene	9.89	10.4	10.0	10.0	99	104	82-115	5	13	
Chlorobenzene	10.0	10.7	10.0	10.0	100	107	80-115	7	14	
<i>Surrogate:</i>										
Dibromofluoromethane					99	104	77-129			
Toluene-d8					101	102	80-127			
4-Bromofluorobenzene					100	101	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Mn Onsite Environmental Inc.

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days) (TPH analysis 5 Days)

_____ (other)

Laboratory Number: 12-130

Company: **GEI**

Project Number: **0183-1001-01**

Project Name: **WWT-R2I**

Project Manager: **Tricia Declme**

Sampled by: **PC, PDR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	CR-MW12-161215	12/15/16	1035	W	3
2	JS-MW2-161215		1220	W	3
3	SS-MW3-161215		1430	W	3
4	JS-MW3S-161215		1335	W	3
5	JS-MW1-161215		1215	W	3
6	SH-MW7-161215 Bl-MW4-161215		1000	W	5
7	TB-20161215			W	1

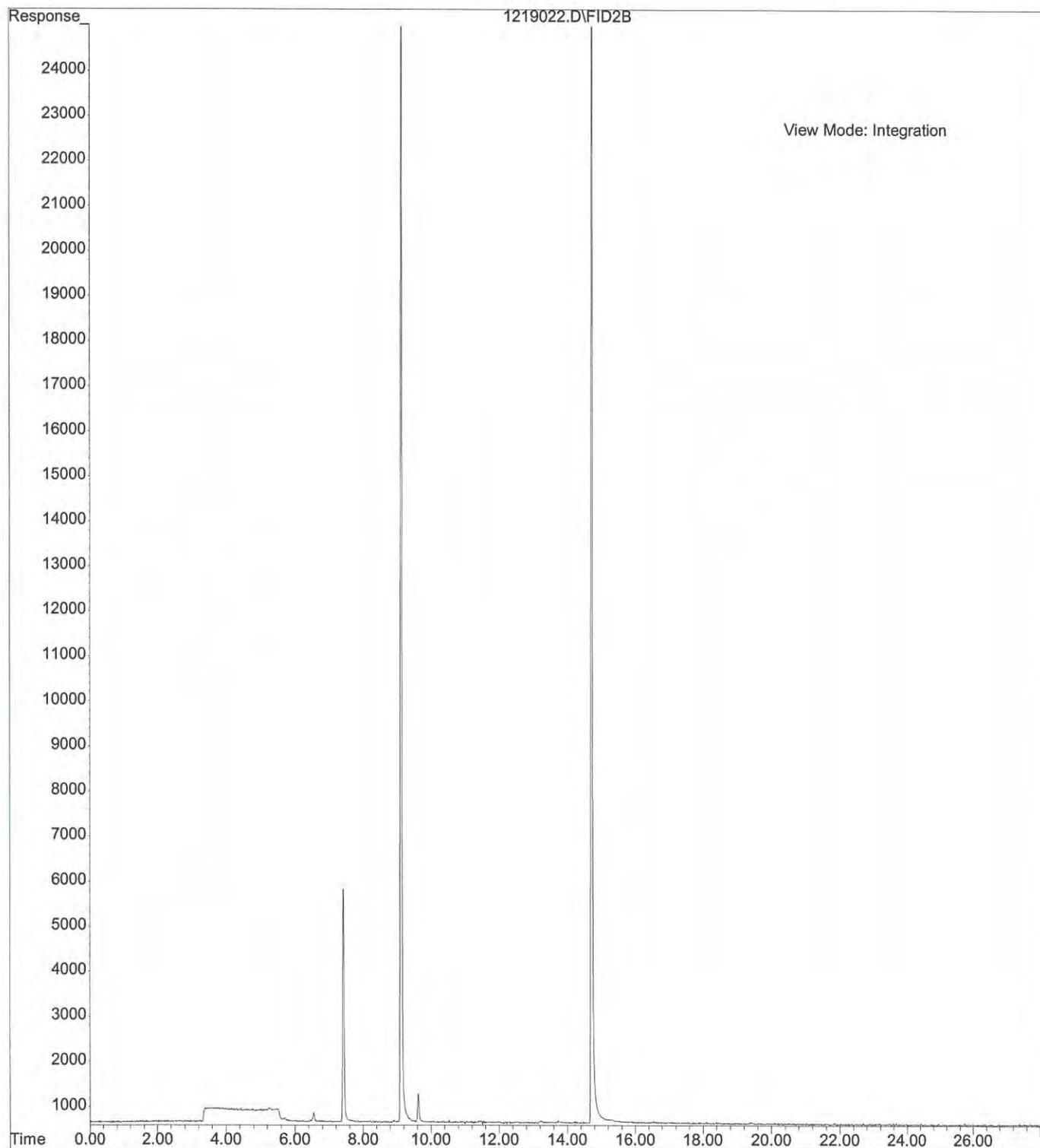
Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BTEX 8260	% Moisture
3						X												X	
3						X												X	
3						X												X	
3						X												X	
5						X												X	
1						X												X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>Mae Uy</i>	GEI	12/16/16	4:00pm	-DO not run (mistake)
<i>Tricia Declme</i>	ALPHA	12/16	4:10 PM	
<i>Tricia Declme</i>	ALPHA	12/16	5:27 PM	
		12/16/16	1727	

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

File : X:\BTEX\HOPE\DATA\H161219\1219022.D
Operator :
Acquired : 19 Dec 2016 19:08 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-130-06e
Misc Info :
Vial Number: 22





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 22, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-131

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 16, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 22, 2016
Samples Submitted: December 16, 2016
Laboratory Reference: 1612-131
Project: 0183-109-01

Case Narrative

Samples were collected on December 16, 2016 and received by the laboratory on December 16, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH Gx Analysis

The gasoline result is mainly attributed to a single peak (Chlorobenzene) for sample UG-MW6-161216.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: December 22, 2016
Samples Submitted: December 16, 2016
Laboratory Reference: 1612-131
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
UG-MW2R-161216	12-131-01	Water	12-16-16	12-16-16	
UG-MW6-161216	12-131-02	Water	12-16-16	12-16-16	
UG-MW12-161216	12-131-03	Water	12-16-16	12-16-16	
BA-MW1-161216	12-131-04	Water	12-16-16	12-16-16	
CB-6512234	12-131-05	Water	12-16-16	12-16-16	
TB-20161216	12-131-06	Water	12-16-16	12-16-16	
DUP-161216	12-131-07	Water	12-16-16	12-16-16	
UG-MW13-161216	12-131-08	Water	12-16-16	12-16-16	



Date of Report: December 22, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-131
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW2R-161216					
Laboratory ID:	12-131-01					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	61-118				
Client ID:	UG-MW6-161216					
Laboratory ID:	12-131-02					
Gasoline	790	100	NWTPH-Gx	12-20-16	12-20-16	Z
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	61-118				
Client ID:	UG-MW12-161216					
Laboratory ID:	12-131-03					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	61-118				
Client ID:	BA-MW1-161216					
Laboratory ID:	12-131-04					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	61-118				
Client ID:	CB-6512234					
Laboratory ID:	12-131-05					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	61-118				
Client ID:	TB-20161216					
Laboratory ID:	12-131-06					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	61-118				



Date of Report: December 22, 2016
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NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161216					
Laboratory ID:	12-131-07					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>91</i>	<i>61-118</i>				



Date of Report: December 22, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-131
 Project: 0183-109-01

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6512234					
Laboratory ID:	12-131-05					
Diesel Range Organics	ND	0.26	NWTPH-Dx	12-19-16	12-20-16	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	12-19-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>111</i>	<i>50-150</i>				



Date of Report: December 22, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-131
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW2R-161216					
Laboratory ID:	12-131-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	0.46	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



Date of Report: December 22, 2016
 Samples Submitted: December 16, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW2R-161216					
Laboratory ID:	12-131-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	0.34	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: December 22, 2016
 Samples Submitted: December 16, 2016
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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW6-161216					
Laboratory ID:	12-131-02					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	20	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	40	4.0	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	20	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	6.6	4.0	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	20	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	20	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	32	4.0	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	220	4.0	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Benzene	19	4.0	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	600	4.0	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	20	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-20-16	12-20-16	



Date of Report: December 22, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW6-161216					
Laboratory ID:	12-131-02					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	360	4.0	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	8.0	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	20	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW12-161216					
Laboratory ID:	12-131-03					
Dichlorodifluoromethane	1.3	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	0.86	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	6.5	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	30	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	0.53	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



Date of Report: December 22, 2016
 Samples Submitted: December 16, 2016
 Laboratory Reference: 1612-131
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW12-161216					
Laboratory ID:	12-131-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BA-MW1-161216					
Laboratory ID:	12-131-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BA-MW1-161216					
Laboratory ID:	12-131-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6512234					
Laboratory ID:	12-131-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CB-6512234					
Laboratory ID:	12-131-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161216					
Laboratory ID:	12-131-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161216					
Laboratory ID:	12-131-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161216					
Laboratory ID:	12-131-07					
Dichlorodifluoromethane	1.3	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	0.83	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	0.20	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	6.3	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	30	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	0.52	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161216					
Laboratory ID:	12-131-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW13-161216					
Laboratory ID:	12-131-08					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	2.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	2.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	2.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	0.94	0.40	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	93	0.40	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-20-16	12-20-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	UG-MW13-161216					
Laboratory ID:	12-131-08					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	0.85	0.40	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	2.0	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1220W2					
Gasoline	ND	100	NWTPH-Gx	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-131-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	92	61-118		



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1219W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-19-16	12-19-16	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-19-16	12-19-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>107</i>	<i>50-150</i>				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-107-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1,M1
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				---	---	50-150		S,S



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1220W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloromethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Iodomethane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chloroform	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Benzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Trichloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromomethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Toluene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-20-16	12-20-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1220W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-20-16	12-20-16	
o-Xylene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromoform	ND	1.0	EPA 8260C	12-20-16	12-20-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Bromobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-20-16	12-20-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-20-16	12-20-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-20-16	12-20-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1220W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.36	10.0	10.0	10.0	94	100	63-127	7	17	
Benzene	10.2	10.8	10.0	10.0	102	108	76-121	6	12	
Trichloroethene	7.65	8.47	10.0	10.0	77	85	64-114	10	15	
Toluene	9.89	10.4	10.0	10.0	99	104	82-115	5	13	
Chlorobenzene	10.0	10.7	10.0	10.0	100	107	80-115	7	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>99</i>	<i>104</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>102</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>100</i>	<i>101</i>	<i>80-125</i>			



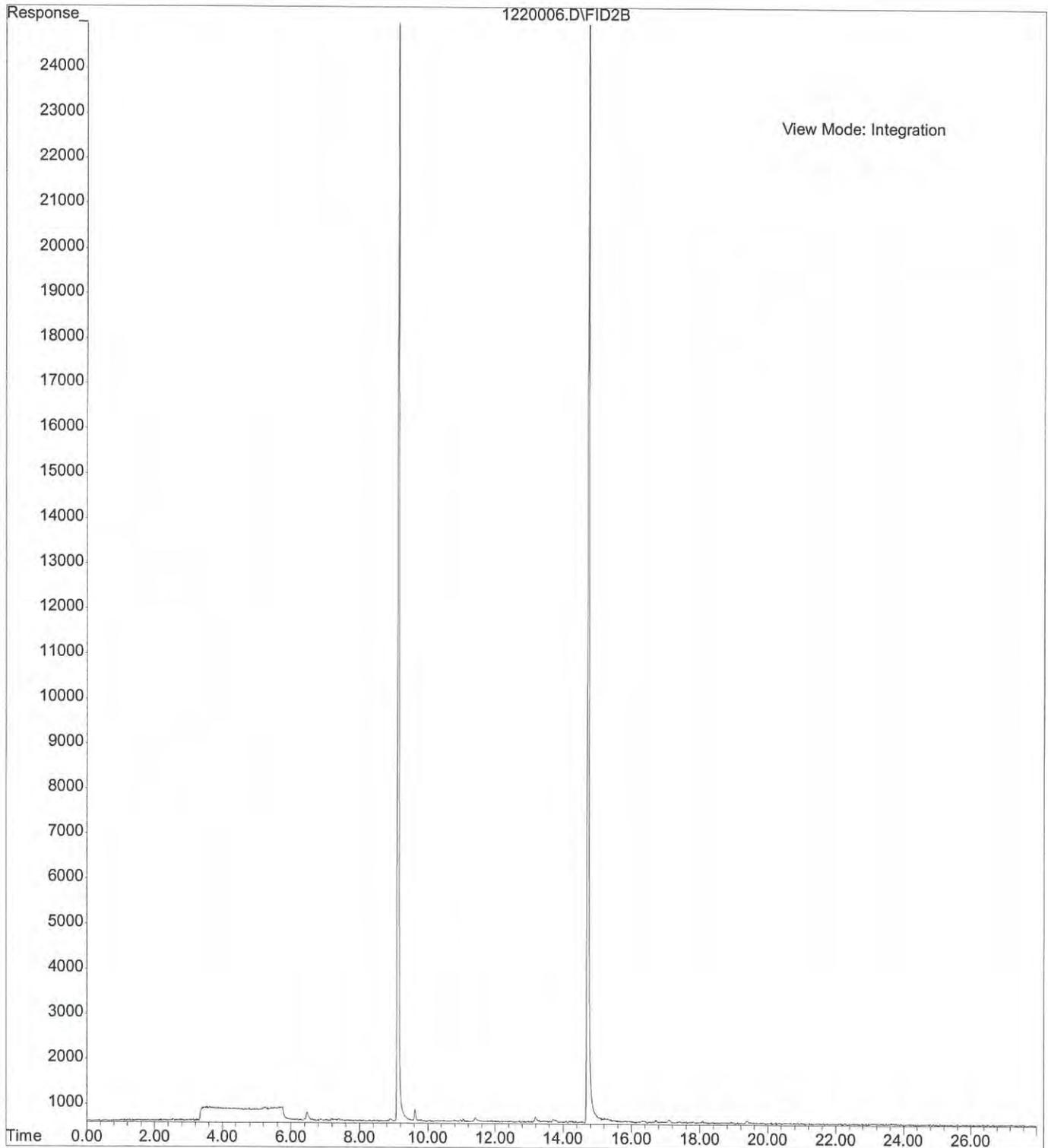


Data Qualifiers and Abbreviations

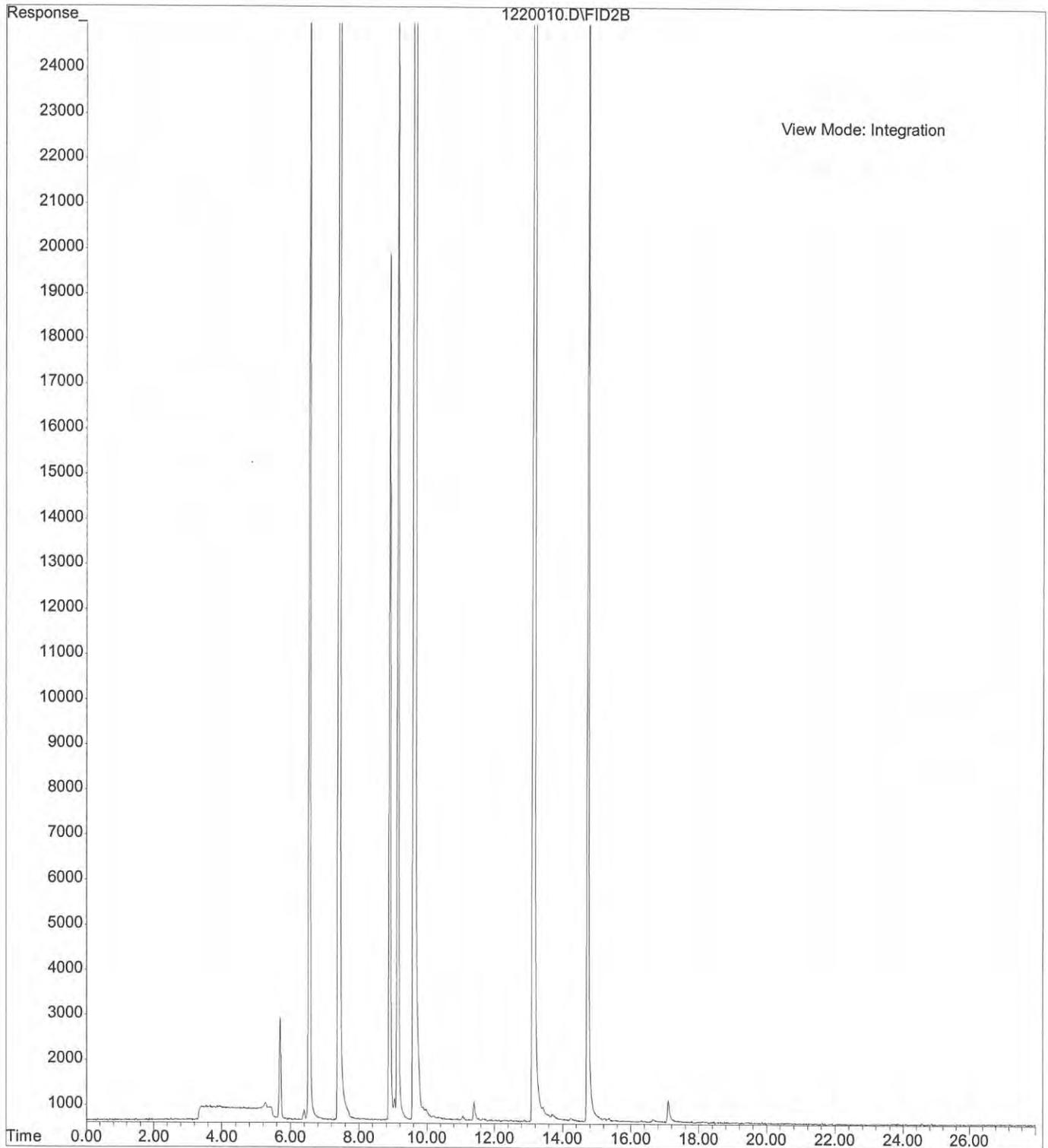
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z - The gasoline result is mainly attributed to a single peak (Chlorobenzene).
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



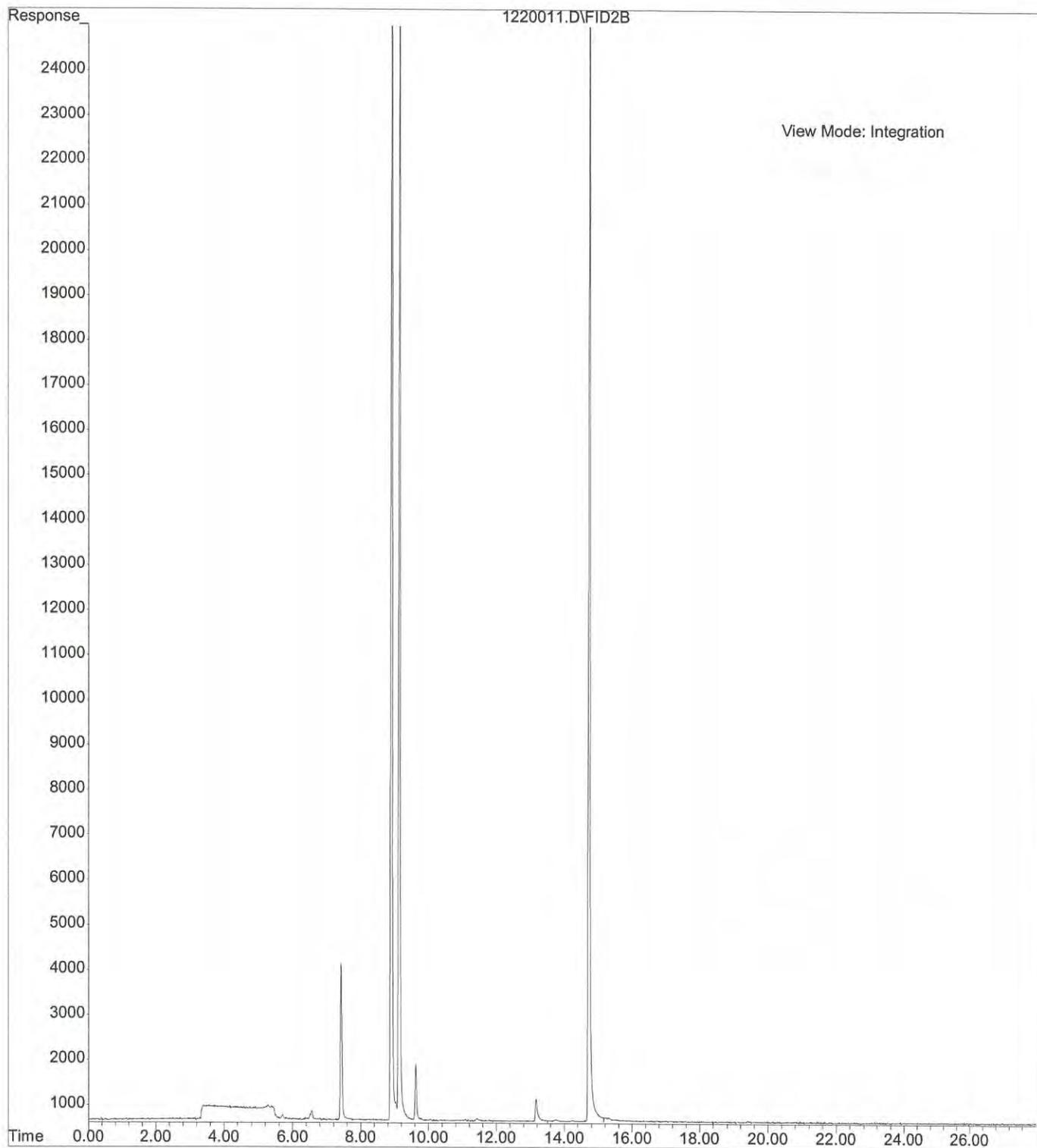
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Instrument : Hope
Sample Name: 12-131-01c
Misc Info :
Vial Number: 6



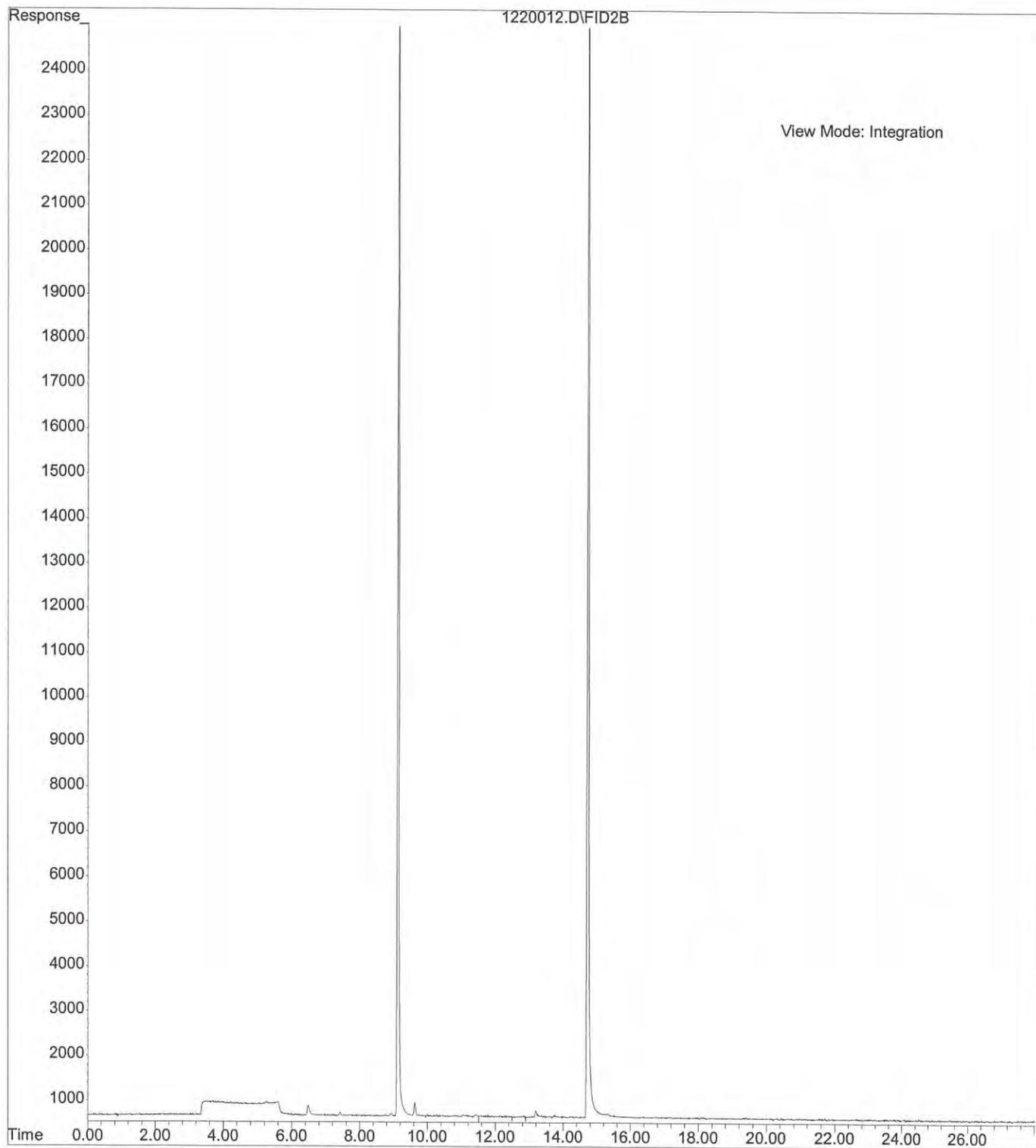
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Instrument : Hope
Sample Name: 12-131-02c
Misc Info :
Vial Number: 10



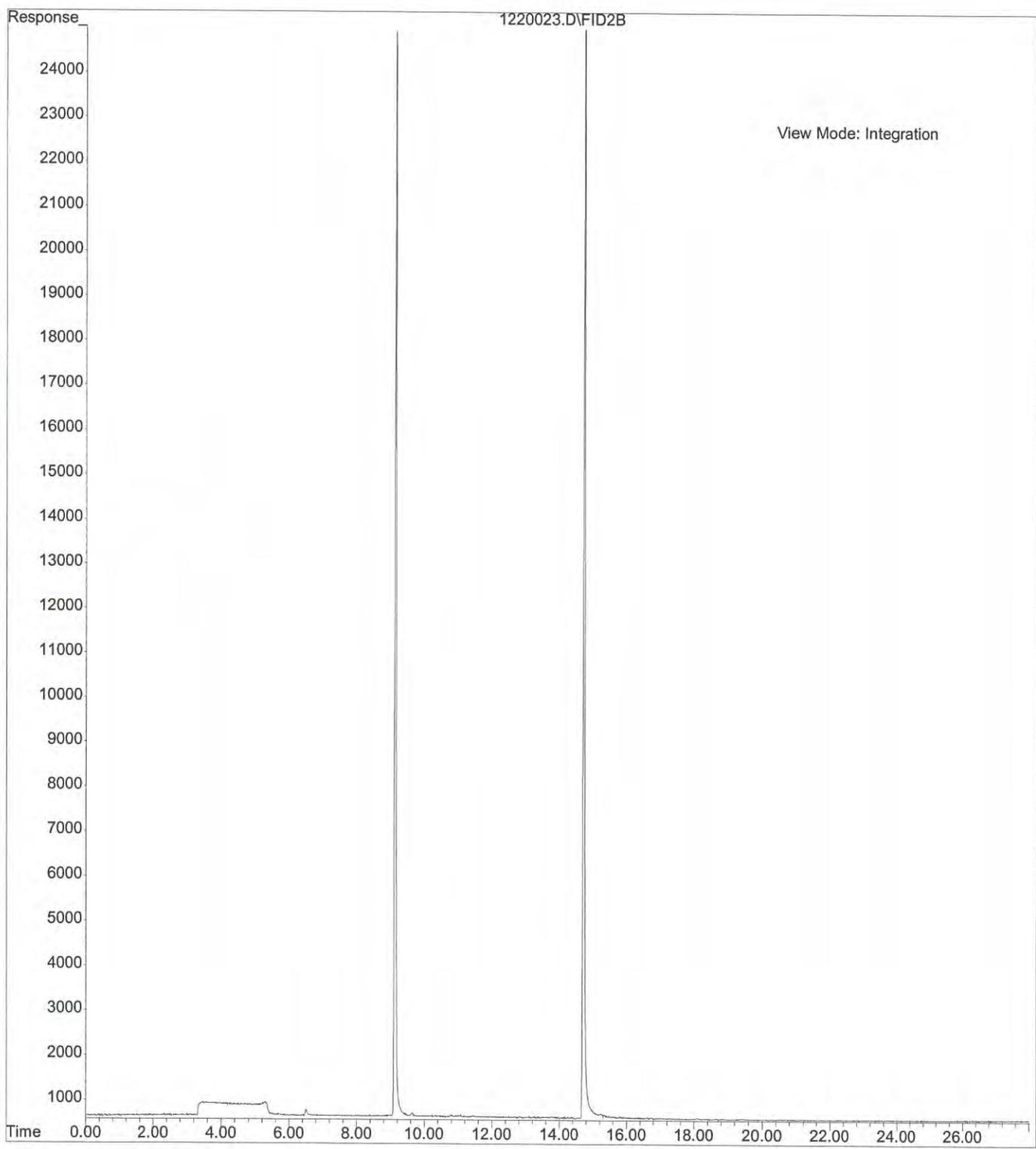
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Acquired : 20 Dec 2016 13:19 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-131-03c
Misc Info :
Vial Number: 11



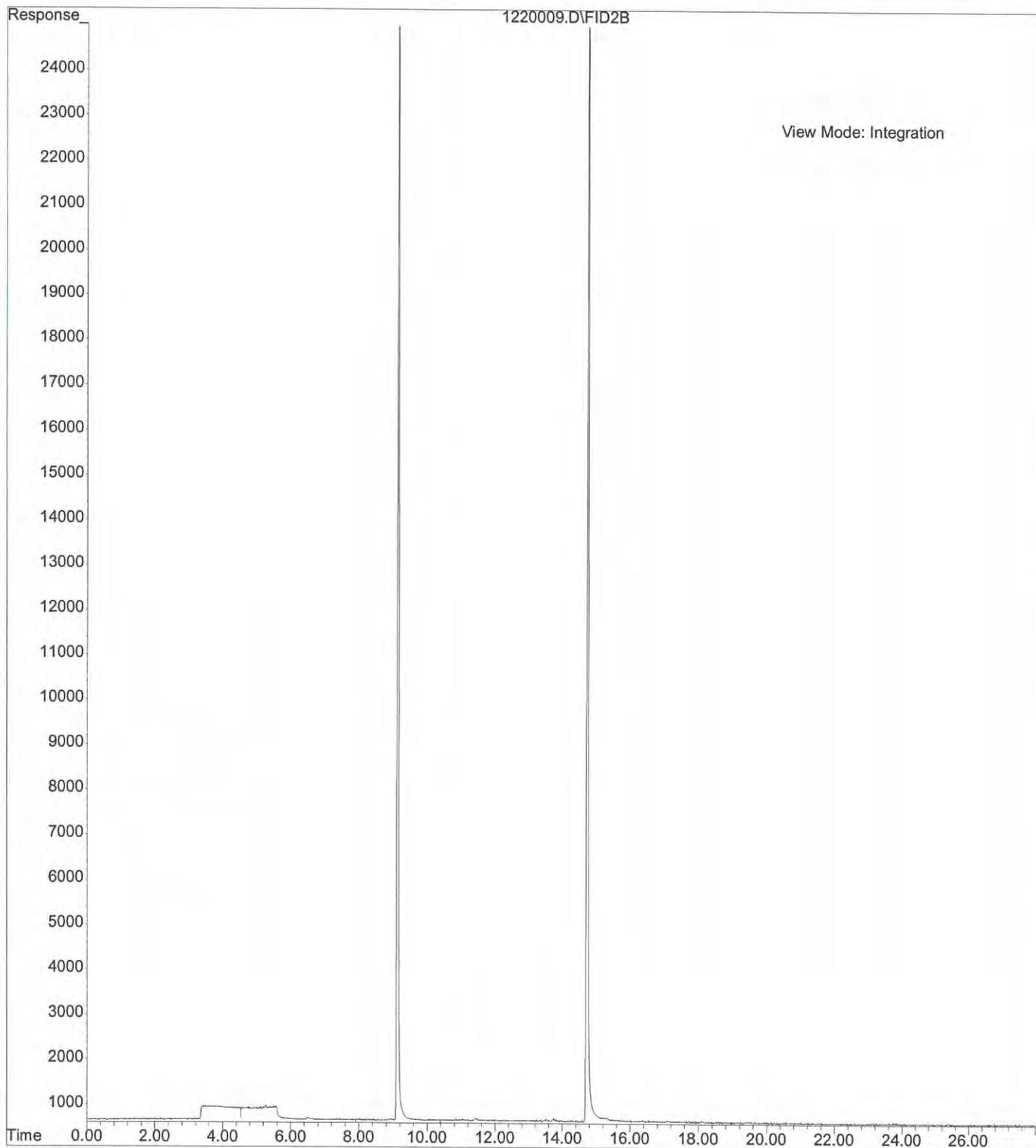
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Operator :
Acquired : 20 Dec 2016 13:53 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-131-04c
Misc Info :
Vial Number: 12



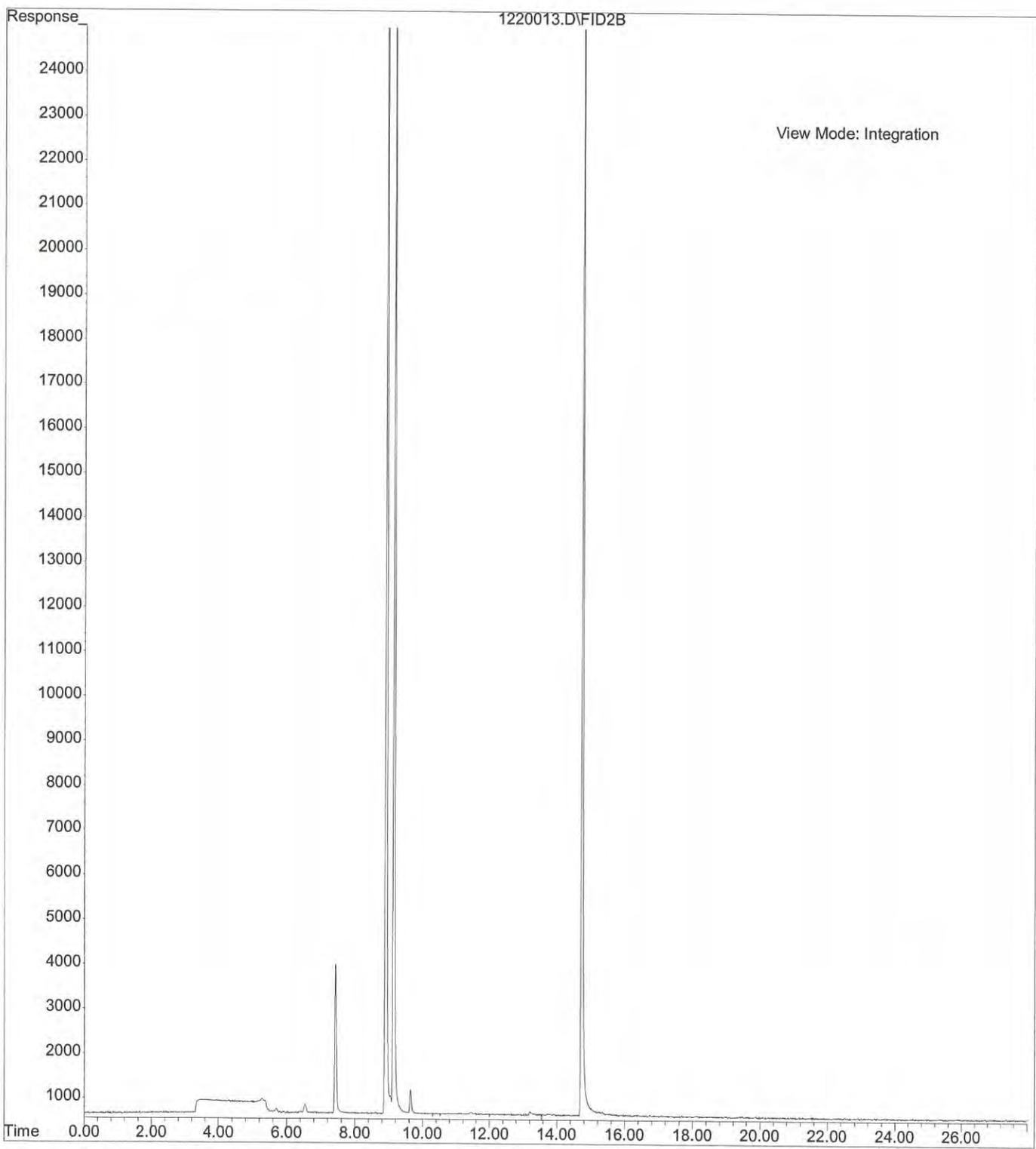
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Instrument : Hope
Sample Name: 12-131-05c
Misc Info :
Vial Number: 23



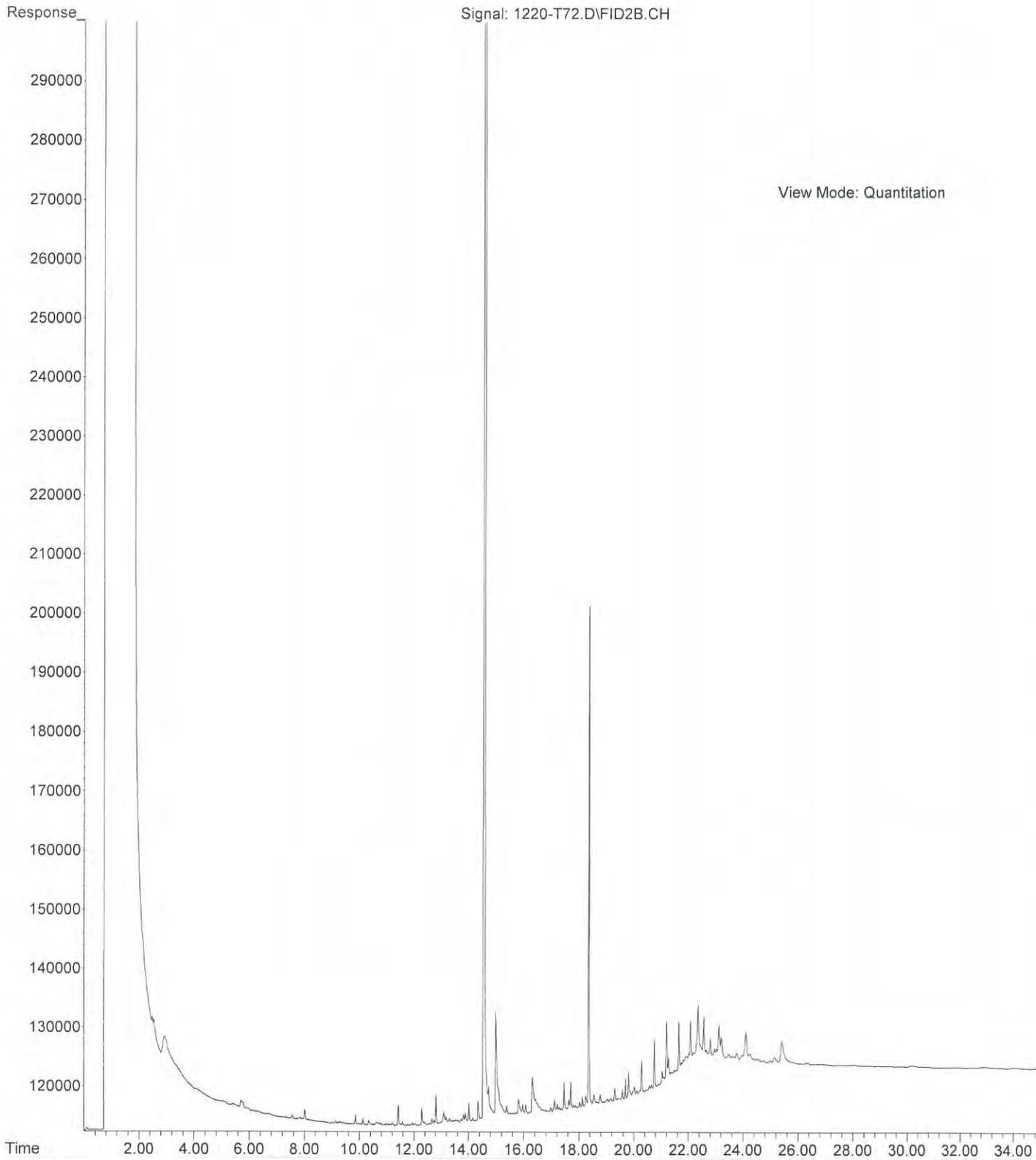
File : X:\BTEX\HOPE\DATA\H161220\1220009.D
Operator :
Acquired : 20 Dec 2016 12:11 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-131-06c
Misc Info :
Vial Number: 9



File : X:\BTEX\HOPE\DATA\H161220\1220013.D
Operator :
Acquired : 20 Dec 2016 14:27 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-131-07c
Misc Info :
Vial Number: 13



File :X:\DIESELS\TERI\DATA\T161220.SEC\1220-T72.D
Operator : ZT
Acquired : 21 Dec 2016 2:29 using AcqMethod T161216F.M
Instrument : Teri
Sample Name: 12-131-05
Misc Info :
Vial Number: 72





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 27, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-152

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 20, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 27, 2016
Samples Submitted: December 20, 2016
Laboratory Reference: 1612-152
Project: 0183-109-01

Case Narrative

Samples were collected on December 18, 2016 and received by the laboratory on December 20, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 27, 2016
Samples Submitted: December 20, 2016
Laboratory Reference: 1612-152
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MH:6751795-161218	12-152-01	Water	12-18-16	12-20-16	
MH:6751818-161218	12-152-02	Water	12-18-16	12-20-16	
MH:6751942-161218	12-152-03	Water	12-18-16	12-20-16	
MH:6767230-161218	12-152-04	Water	12-18-16	12-20-16	
MH:6767107-161218	12-152-05	Water	12-18-16	12-20-16	
MH:6767239-161218	12-152-06	Water	12-18-16	12-20-16	



Date of Report: December 27, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-152
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6751795-161218					
Laboratory ID:	12-152-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



Date of Report: December 27, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6751795-161218					
Laboratory ID:	12-152-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	77-129				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	97	80-125				



Date of Report: December 27, 2016
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6751818-161218					
Laboratory ID:	12-152-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6751818-161218					
Laboratory ID:	12-152-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: December 27, 2016
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6751942-161218					
Laboratory ID:	12-152-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	0.71	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	1.1	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6751942-161218					
Laboratory ID:	12-152-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6767230-161218					
Laboratory ID:	12-152-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	7.2	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6767230-161218					
Laboratory ID:	12-152-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	0.50	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



Date of Report: December 27, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-152
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6767107-161218					
Laboratory ID:	12-152-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6767107-161218					
Laboratory ID:	12-152-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6767239-161218					
Laboratory ID:	12-152-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	4.5	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MH:6767239-161218					
Laboratory ID:	12-152-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	0.30	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1223W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloromethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Iodomethane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chloroform	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Trichloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromomethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-23-16	12-23-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-23-16	12-23-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1223W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Bromoform	ND	1.0	EPA 8260C	12-23-16	12-23-16	
Bromobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-23-16	12-23-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-23-16	12-23-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-23-16	12-23-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: December 27, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-152
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1223W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.23	9.42	10.0	10.0	92	94	63-127	2	17	
Benzene	9.67	9.90	10.0	10.0	97	99	76-121	2	12	
Trichloroethene	8.87	8.89	10.0	10.0	89	89	64-114	0	15	
Toluene	9.84	9.90	10.0	10.0	98	99	82-115	1	13	
Chlorobenzene	9.94	9.85	10.0	10.0	99	99	80-115	1	14	
<i>Surrogate:</i>										
Dibromofluoromethane					97	102	77-129			
Toluene-d8					99	100	80-127			
4-Bromofluorobenzene					99	100	80-125			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Onsite Environmental Inc.

Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number:

12-152

Company: **GEI**

Project Number: **083-109-01**

Project Name: **WT-PI**

Project Manager: **Tricia DeDome**

Sampled by: **PDE, PC**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MH: 6751795-161218	12/18/16	9:28	W	3
2	MH: 6751818-161218		11:24	W	3
3	MH: 6751942-161218		12:00	W	3
4	MH: 6767230-161218		12:30	W	3
5	MH: 6767167-161218		13:00	W	3
6	MH: 6767239-161218		13:50	W	3

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
3						X												
3						X												
3						X												
3						X												
3						X												
3						X												

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEI	12/20/16	1:40p	
<i>[Signature]</i>	Alpa	12/20/16	1:20pm	
<i>[Signature]</i>	Alpa	12/20/16	3:22pm	
<i>[Signature]</i>	Alpa	12/20/16	15:22	
Received				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Relinquished				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>
Reviewed/Date				



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-153

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 20, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2016
Samples Submitted: December 20, 2016
Laboratory Reference: 1612-153
Project: 0183-109-01

Case Narrative

Samples were collected on December 19, 2016 and received by the laboratory on December 20, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 28, 2016
Samples Submitted: December 20, 2016
Laboratory Reference: 1612-153
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A7-MW1D-161219	12-153-01	Water	12-19-16	12-20-16	
USC-MW1D-161219	12-153-02	Water	12-19-16	12-20-16	
JS-MW4D-161219	12-153-03	Water	12-19-16	12-20-16	
PL-MW1-161219	12-153-04	Water	12-19-16	12-20-16	
A7-MW1S-161219	12-153-05	Water	12-19-16	12-20-16	
USC-MW1S-161219	12-153-06	Water	12-19-16	12-20-16	
TB-20161219	12-153-07	Water	12-19-16	12-20-16	



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-161219					
Laboratory ID:	12-153-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-161219					
Laboratory ID:	12-153-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1D-161219					
Laboratory ID:	12-153-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



Date of Report: December 28, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1D-161219					
Laboratory ID:	12-153-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
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 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW4D-161219					
Laboratory ID:	12-153-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	3.1	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



Date of Report: December 28, 2016
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW4D-161219					
Laboratory ID:	12-153-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
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 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PL-MW1-161219					
Laboratory ID:	12-153-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PL-MW1-161219					
Laboratory ID:	12-153-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-161219					
Laboratory ID:	12-153-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-161219					
Laboratory ID:	12-153-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1S-161219					
Laboratory ID:	12-153-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	2.2	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1S-161219					
Laboratory ID:	12-153-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	250	2.0	EPA 8260C	12-28-16	12-28-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161219					
Laboratory ID:	12-153-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161219					
Laboratory ID:	12-153-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1227W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1227W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1228W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chloromethane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromomethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chloroethane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Iodomethane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-28-16	12-28-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chloroform	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Trichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Dibromomethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-28-16	12-28-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-28-16	12-28-16	



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1228W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromoform	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Bromobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1227W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.72	10.1	10.0	10.0	97	101	63-127	4	17	
Benzene	10.6	11.3	10.0	10.0	106	113	76-121	6	12	
Trichloroethene	7.85	8.11	10.0	10.0	79	81	64-114	3	15	
Toluene	9.85	10.3	10.0	10.0	99	103	82-115	4	13	
Chlorobenzene	9.83	10.3	10.0	10.0	98	103	80-115	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>103</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>100</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>100</i>	<i>80-125</i>			



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1228W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	10.2	10.0	10.0	101	102	63-127	1	17	
Benzene	10.7	11.0	10.0	10.0	107	110	76-121	3	12	
Trichloroethene	7.83	8.12	10.0	10.0	78	81	64-114	4	15	
Toluene	10.1	10.4	10.0	10.0	101	104	82-115	3	13	
Chlorobenzene	10.0	10.3	10.0	10.0	100	103	80-115	3	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>103</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>98</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>101</i>	<i>102</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-153

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 20, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2016
Samples Submitted: December 20, 2016
Laboratory Reference: 1612-153
Project: 0183-109-01

Case Narrative

Samples were collected on December 19, 2016 and received by the laboratory on December 20, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 28, 2016
Samples Submitted: December 20, 2016
Laboratory Reference: 1612-153
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A7-MW1D-161219	12-153-01	Water	12-19-16	12-20-16	
USC-MW1D-161219	12-153-02	Water	12-19-16	12-20-16	
JS-MW4D-161219	12-153-03	Water	12-19-16	12-20-16	
PL-MW1-161219	12-153-04	Water	12-19-16	12-20-16	
A7-MW1S-161219	12-153-05	Water	12-19-16	12-20-16	
USC-MW1S-161219	12-153-06	Water	12-19-16	12-20-16	
TB-20161219	12-153-07	Water	12-19-16	12-20-16	



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-161219					
Laboratory ID:	12-153-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1D-161219					
Laboratory ID:	12-153-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1D-161219					
Laboratory ID:	12-153-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



Date of Report: December 28, 2016
 Samples Submitted: December 20, 2016
 Laboratory Reference: 1612-153
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1D-161219					
Laboratory ID:	12-153-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW4D-161219					
Laboratory ID:	12-153-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	3.1	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	JS-MW4D-161219					
Laboratory ID:	12-153-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PL-MW1-161219					
Laboratory ID:	12-153-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Benzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Toluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PL-MW1-161219					
Laboratory ID:	12-153-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-27-16	12-27-16	
o-Xylene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-161219					
Laboratory ID:	12-153-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A7-MW1S-161219					
Laboratory ID:	12-153-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1S-161219					
Laboratory ID:	12-153-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	5.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	2.2	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	USC-MW1S-161219					
Laboratory ID:	12-153-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	250	2.0	EPA 8260C	12-28-16	12-28-16	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	5.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161219					
Laboratory ID:	12-153-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161219					
Laboratory ID:	12-153-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>80-125</i>				



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**VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1227W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Benzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Toluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1227W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-27-16	12-27-16	
o-Xylene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1228W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chloromethane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromomethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chloroethane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Iodomethane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-28-16	12-28-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chloroform	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Trichloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Dibromomethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-28-16	12-28-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-28-16	12-28-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1228W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Bromoform	ND	1.0	EPA 8260C	12-28-16	12-28-16	
Bromobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-28-16	12-28-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-28-16	12-28-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-28-16	12-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1227W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.72	10.1	10.0	10.0	97	101	63-127	4	17	
Benzene	10.6	11.3	10.0	10.0	106	113	76-121	6	12	
Trichloroethene	7.85	8.11	10.0	10.0	79	81	64-114	3	15	
Toluene	9.85	10.3	10.0	10.0	99	103	82-115	4	13	
Chlorobenzene	9.83	10.3	10.0	10.0	98	103	80-115	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>103</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>100</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>100</i>	<i>80-125</i>			



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 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1228W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	10.2	10.0	10.0	101	102	63-127	1	17	
Benzene	10.7	11.0	10.0	10.0	107	110	76-121	3	12	
Trichloroethene	7.83	8.12	10.0	10.0	78	81	64-114	4	15	
Toluene	10.1	10.4	10.0	10.0	101	104	82-115	3	13	
Chlorobenzene	10.0	10.3	10.0	10.0	100	103	80-115	3	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>103</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>98</i>	<i>98</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>101</i>	<i>102</i>	<i>80-125</i>			





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





MVA Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)
 (Check One)

Laboratory Number: **12-170**

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Company: **GEI**
 Project Number: **0183-104-01**
 Project Name: **WT-PI**
 Project Manager: **Tricia DeGme**
 Sampled by: **PC, PDR**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	CR-MW3-161220	12/20/16	12:54	W	5
2	SH-MW8-161220		9:25	W	5
3	PL-MW2-161220		11:16	W	5
4	CR-MW16-161220		14:30	W	3
5	MDS-MWD-161220		13:00	W	3
6	CR-MW17-161220		11:30	W	3
7	All-MW12S-161220		9:40	W	3
8	All-MW12D-161220		8:50	W	3
9	DUP-161220		12:00	W	3
10	TB-20161220			W	5

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	BTEX	Chlorobenzene	% Moisture
5			X			X												X	X	
5			X			X												X		
5			X			X												X		
3						X														
3						X														
3						X														
3						X														
3						X														
3						X														
5						X												X	X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEI	12/20/16	9:45am	
<i>[Signature]</i>	SPEERBY	12-21-16	9:45A	
<i>[Signature]</i>	SPEERBY	12-21-16	12:35pm	
<i>[Signature]</i>	ORTE	12/20/16	12:35	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 4, 2017

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-188

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 22, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 4, 2017
Samples Submitted: December 22, 2016
Laboratory Reference: 1612-188
Project: 0183-109-01

Case Narrative

Samples were collected on December 21, 2016 and received by the laboratory on December 22, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: January 4, 2017
Samples Submitted: December 22, 2016
Laboratory Reference: 1612-188
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
PS-MW8-161221	12-188-01	Water	12-21-16	12-22-16	
PS-MW6-161221	12-188-02	Water	12-21-16	12-22-16	
PS-MW7-161221	12-188-03	Water	12-21-16	12-22-16	
CR-MW9-161221	12-188-04	Water	12-21-16	12-22-16	
CR-MW8-161221	12-188-05	Water	12-21-16	12-22-16	
BL-MW1-161221	12-188-06	Water	12-21-16	12-22-16	
BL-MW5-161221	12-188-07	Water	12-21-16	12-22-16	
PS-MW9-161221	12-188-08	Water	12-21-16	12-22-16	
SH-MW6-161221	12-188-09	Water	12-21-16	12-22-16	
TB-20161221	12-188-10	Water	12-21-16	12-22-16	



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW9-161221					
Laboratory ID:	12-188-04					
Gasoline	650	100	NWTPH-Gx	12-28-16	12-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	80	61-118				
Client ID:	CR-MW8-161221					
Laboratory ID:	12-188-05					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	83	61-118				
Client ID:	BL-MW1-161221					
Laboratory ID:	12-188-06					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	77	61-118				
Client ID:	BL-MW5-161221					
Laboratory ID:	12-188-07					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	61-118				
Client ID:	SH-MW6-161221					
Laboratory ID:	12-188-09					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	61-118				
Client ID:	TB-20161221					
Laboratory ID:	12-188-10					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	77	61-118				



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW8-161221					
Laboratory ID:	12-188-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	12-30-16	12-30-16	
Lube Oil	0.45	0.42	NWTPH-Dx	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	74	50-150				
Client ID:	PS-MW6-161221					
Laboratory ID:	12-188-02					
Diesel Range Organics	5.3	0.26	NWTPH-Dx	12-30-16	12-30-16	
Lube Oil Range Organics	ND	0.65	NWTPH-Dx	12-30-16	12-30-16	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID:	PS-MW7-161221					
Laboratory ID:	12-188-03					
Diesel Range Organics	21	0.26	NWTPH-Dx	12-30-16	12-30-16	
Lube Oil Range Organics	ND	1.6	NWTPH-Dx	12-30-16	12-30-16	U1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Client ID:	PS-MW9-161221					
Laboratory ID:	12-188-08					
Diesel Range Organics	ND	0.26	NWTPH-Dx	12-30-16	12-30-16	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW8-161221					
Laboratory ID:	12-188-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	0.68	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	3.3	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	5.2	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW8-161221					
Laboratory ID:	12-188-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-125</i>				



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW6-161221					
Laboratory ID:	12-188-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	1.7	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	0.22	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	12	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	26	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	15	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW6-161221					
Laboratory ID:	12-188-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW7-161221					
Laboratory ID:	12-188-03					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	1.0	0.40	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	0.74	0.40	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	2.8	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	1.4	0.40	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	32	0.40	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	110	1.0	EPA 8260C	1-3-17	1-3-17	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 4, 2017
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 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW7-161221					
Laboratory ID:	12-188-03					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW9-161221					
Laboratory ID:	12-188-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	11	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	7.7	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW9-161221					
Laboratory ID:	12-188-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	9.0	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	15	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	1.8	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW8-161221					
Laboratory ID:	12-188-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW8-161221					
Laboratory ID:	12-188-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW1-161221					
Laboratory ID:	12-188-06					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	0.76	0.40	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	2.8	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	2.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	11	0.40	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	93	0.40	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	88	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW1-161221					
Laboratory ID:	12-188-06					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.80	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW5-161221					
Laboratory ID:	12-188-07					
Dichlorodifluoromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	10	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	6.0	2.0	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	10	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	2.1	2.0	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	14	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	10	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	3.3	2.0	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	61	2.0	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	240	2.0	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	10	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	10	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	2.0	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW5-161221					
Laboratory ID:	12-188-07					
1,1,2-Trichloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	4.5	2.0	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	4.0	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	10	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	2.0	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	10	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	2.0	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW9-161221					
Laboratory ID:	12-188-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	1.9	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	3.7	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PS-MW9-161221					
Laboratory ID:	12-188-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SH-MW6-161221					
Laboratory ID:	12-188-09					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SH-MW6-161221					
Laboratory ID:	12-188-09					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161221					
Laboratory ID:	12-188-10					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161221					
Laboratory ID:	12-188-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W2					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	76	61-118				
Laboratory ID:	MB1228W1					
Gasoline	ND	100	NWTPH-Gx	12-28-16	12-28-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-188-05							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				83	77	61-118		



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**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-30-16	12-30-16	
Lube Oil	ND	0.40	NWTPH-Dx	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	107	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-188-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil	0.445	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				74	74	50-150		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1230W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1230W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB0103W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Chloromethane	ND	1.0	EPA 8260C	1-3-17	1-3-17	
Vinyl Chloride	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Bromomethane	ND	0.56	EPA 8260C	1-3-17	1-3-17	
Chloroethane	ND	1.0	EPA 8260C	1-3-17	1-3-17	
Trichlorofluoromethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,1-Dichloroethene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Iodomethane	ND	3.4	EPA 8260C	1-3-17	1-3-17	
Methylene Chloride	ND	1.0	EPA 8260C	1-3-17	1-3-17	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,1-Dichloroethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
2,2-Dichloropropane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Bromochloromethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Chloroform	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Carbon Tetrachloride	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,1-Dichloropropene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Benzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,2-Dichloroethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Trichloroethene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,2-Dichloropropane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Dibromomethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Bromodichloromethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	1-3-17	1-3-17	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Toluene	ND	1.0	EPA 8260C	1-3-17	1-3-17	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	1-3-17	1-3-17	



Date of Report: January 4, 2017
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB0103W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Tetrachloroethene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,3-Dichloropropane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Dibromochloromethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,2-Dibromoethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Chlorobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Ethylbenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
m,p-Xylene	ND	0.40	EPA 8260C	1-3-17	1-3-17	
o-Xylene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Bromoform	ND	1.0	EPA 8260C	1-3-17	1-3-17	
Bromobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	1-3-17	1-3-17	
2-Chlorotoluene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
4-Chlorotoluene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	1-3-17	1-3-17	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
Hexachlorobutadiene	ND	0.27	EPA 8260C	1-3-17	1-3-17	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	1-3-17	1-3-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>80-125</i>				



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1230W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.45	9.91	10.0	10.0	95	99	63-127	5	17	
Benzene	10.2	11.1	10.0	10.0	102	111	76-121	8	12	
Trichloroethene	7.61	7.88	10.0	10.0	76	79	64-114	3	15	
Toluene	9.72	10.4	10.0	10.0	97	104	82-115	7	13	
Chlorobenzene	9.28	9.82	10.0	10.0	93	98	80-115	6	14	
<i>Surrogate:</i>										
Dibromofluoromethane					100	101	77-129			
Toluene-d8					100	98	80-127			
4-Bromofluorobenzene					106	104	80-125			



Date of Report: January 4, 2017
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-188
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0103W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.83	10.4	10.0	10.0	98	104	63-127	6	17	
Benzene	10.9	11.7	10.0	10.0	109	117	76-121	7	12	
Trichloroethene	7.97	8.38	10.0	10.0	80	84	64-114	5	15	
Toluene	10.2	10.9	10.0	10.0	102	109	82-115	7	13	
Chlorobenzene	9.92	10.3	10.0	10.0	99	103	80-115	4	14	
<i>Surrogate:</i>										
Dibromofluoromethane					106	101	77-129			
Toluene-d8					98	97	80-127			
4-Bromofluorobenzene					103	102	80-125			



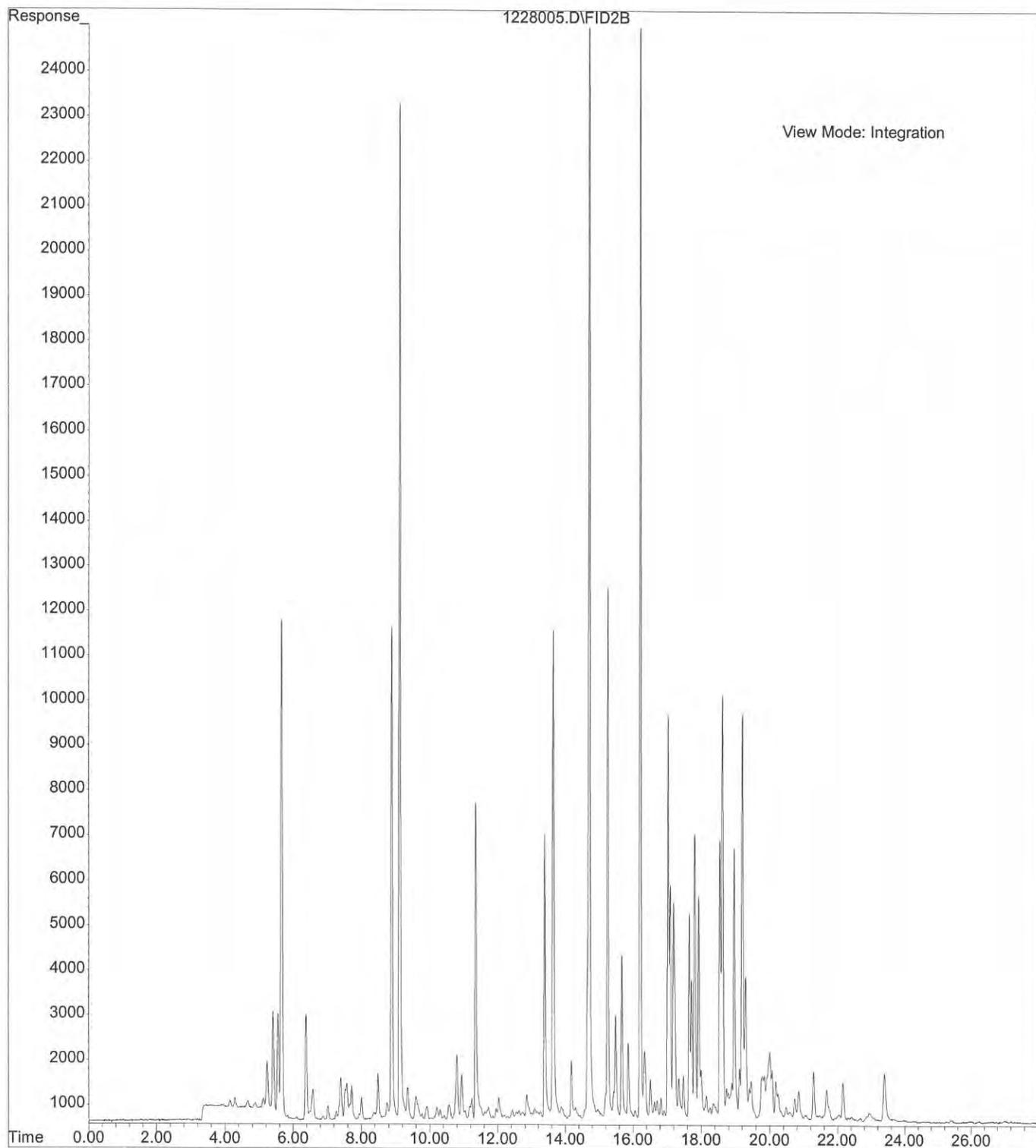


Data Qualifiers and Abbreviations

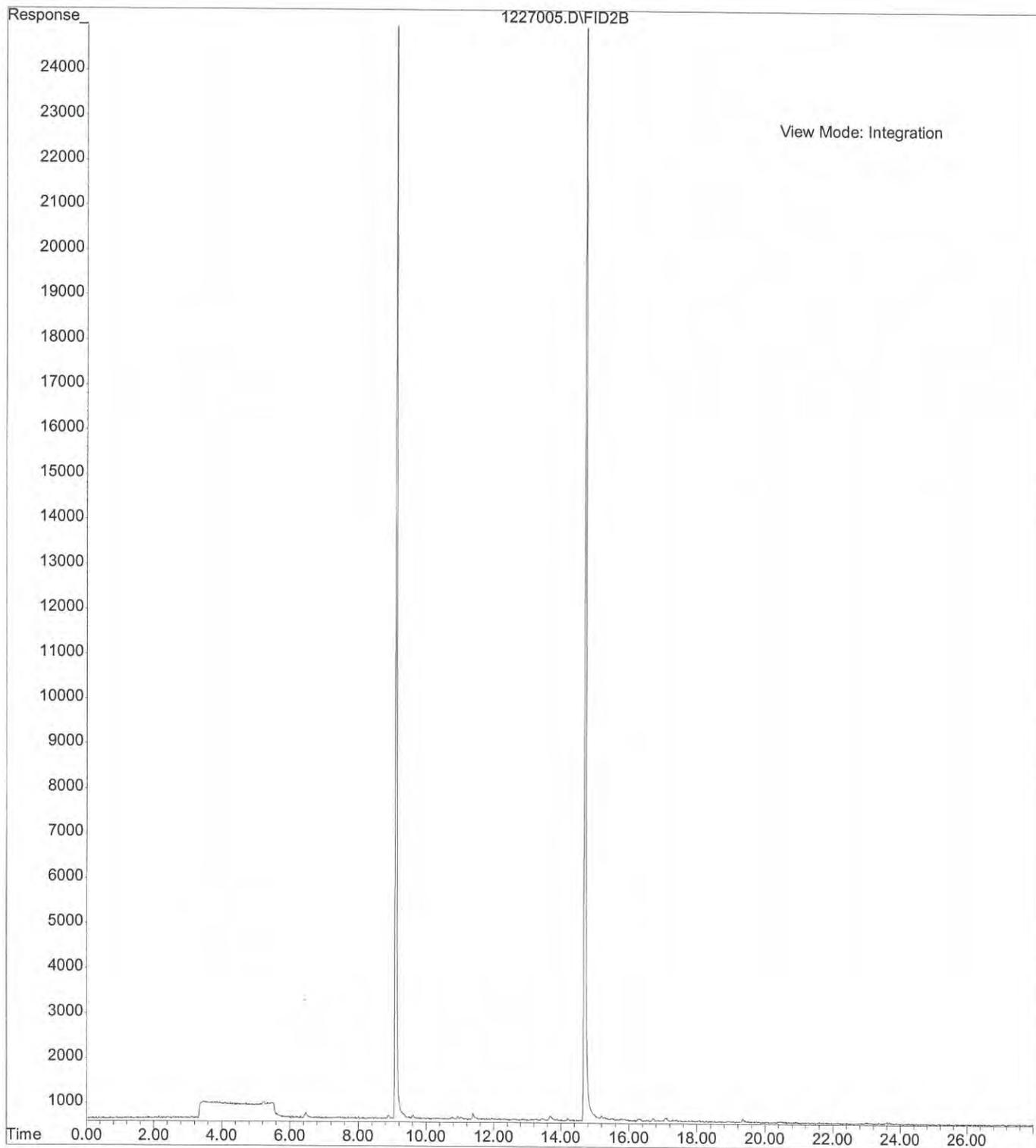
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



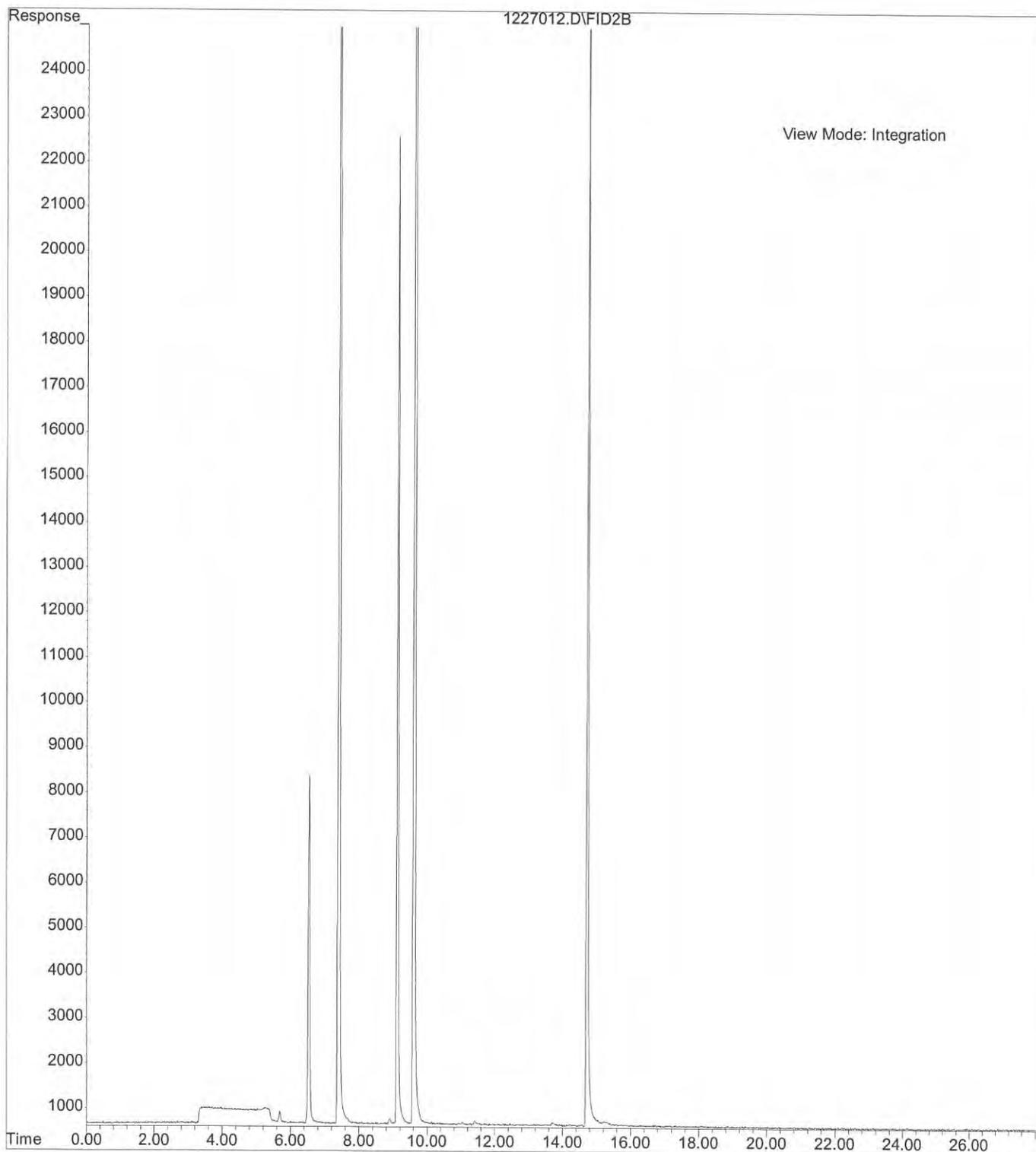
File : X:\BTEX\HOPE\DATA\H161228\1228005.D
Operator :
Acquired : 28 Dec 2016 10:27 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-188-04e rr
Misc Info :
Vial Number: 5



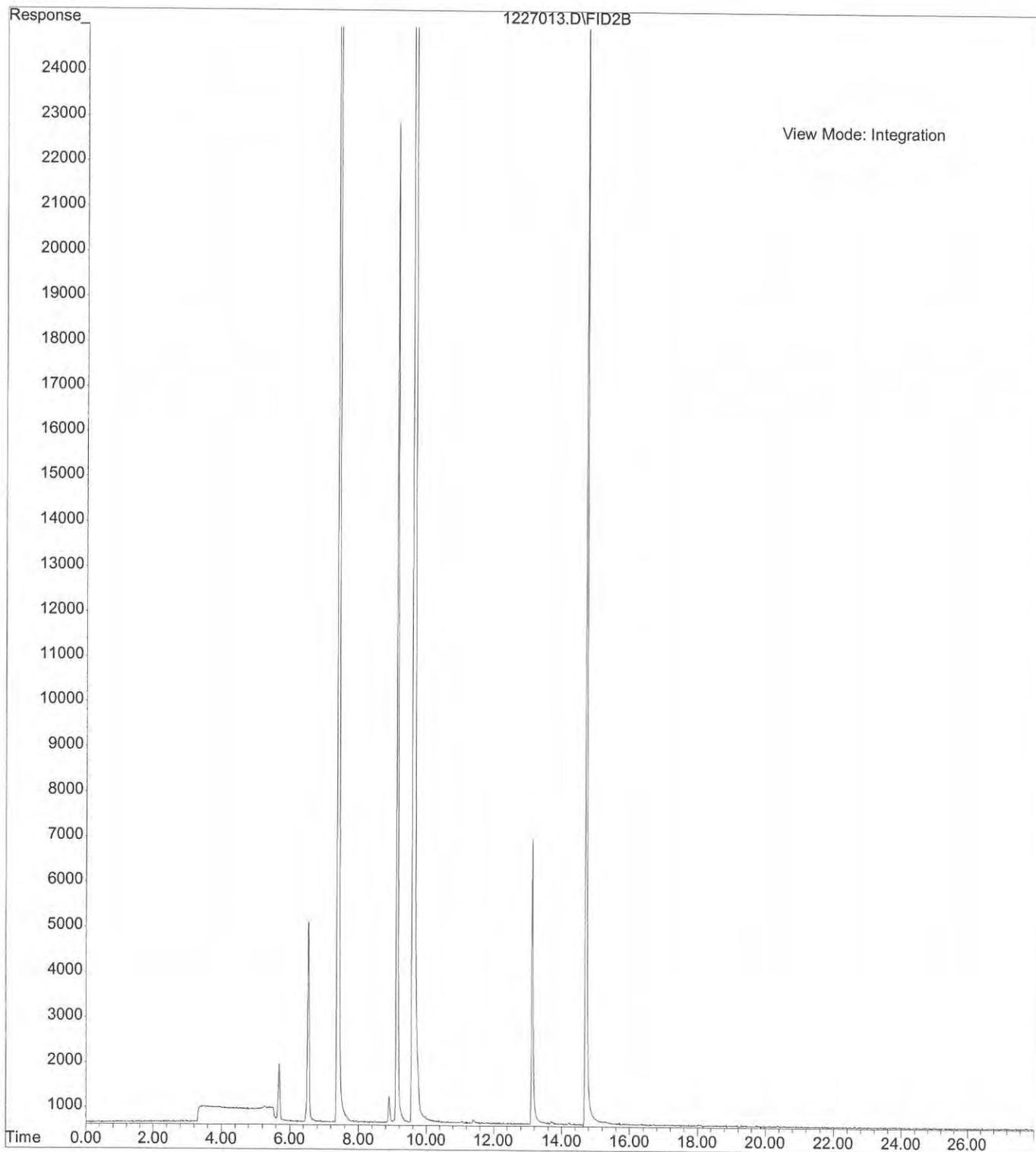
File : X:\BTEX\HOPE\DATA\H161227\1227005.D
Operator :
Acquired : 27 Dec 2016 10:08 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-188-05d
Misc Info :
Vial Number: 5



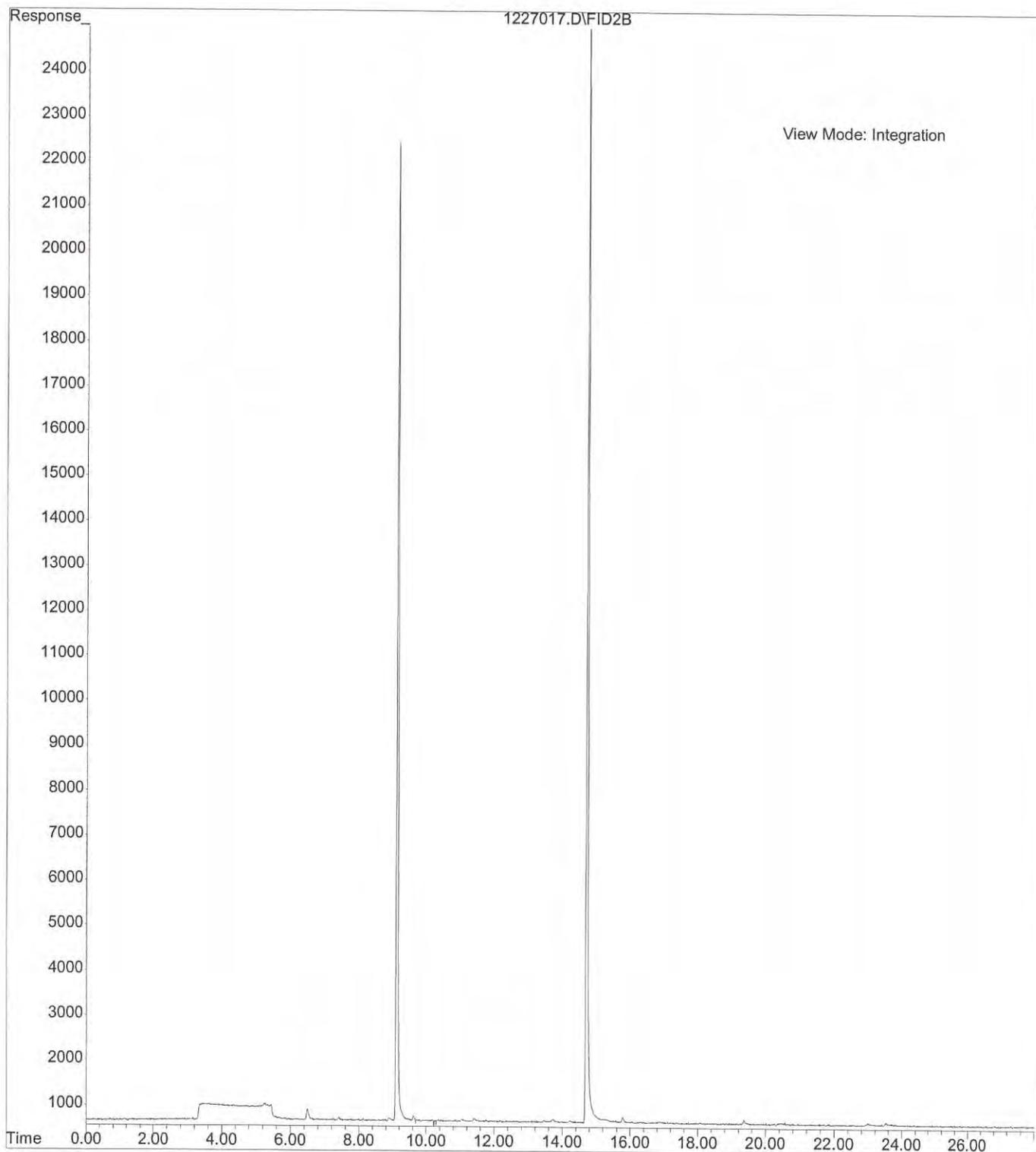
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Operator :
Acquired : 27 Dec 2016 14:14 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-188-06d
Misc Info :
Vial Number: 12



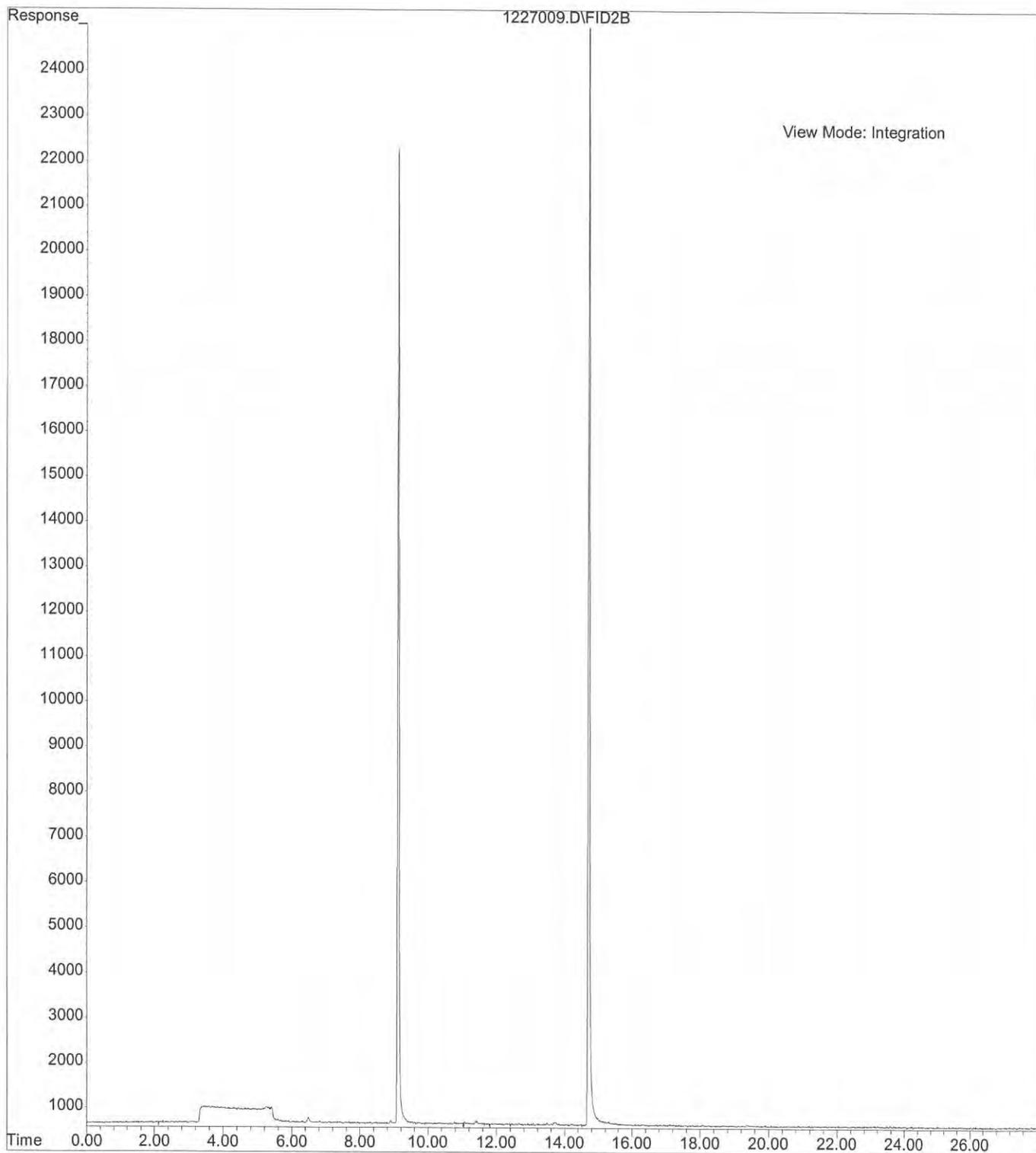
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Acquired : 27 Dec 2016 14:48 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-188-07d
Misc Info :
Vial Number: 13



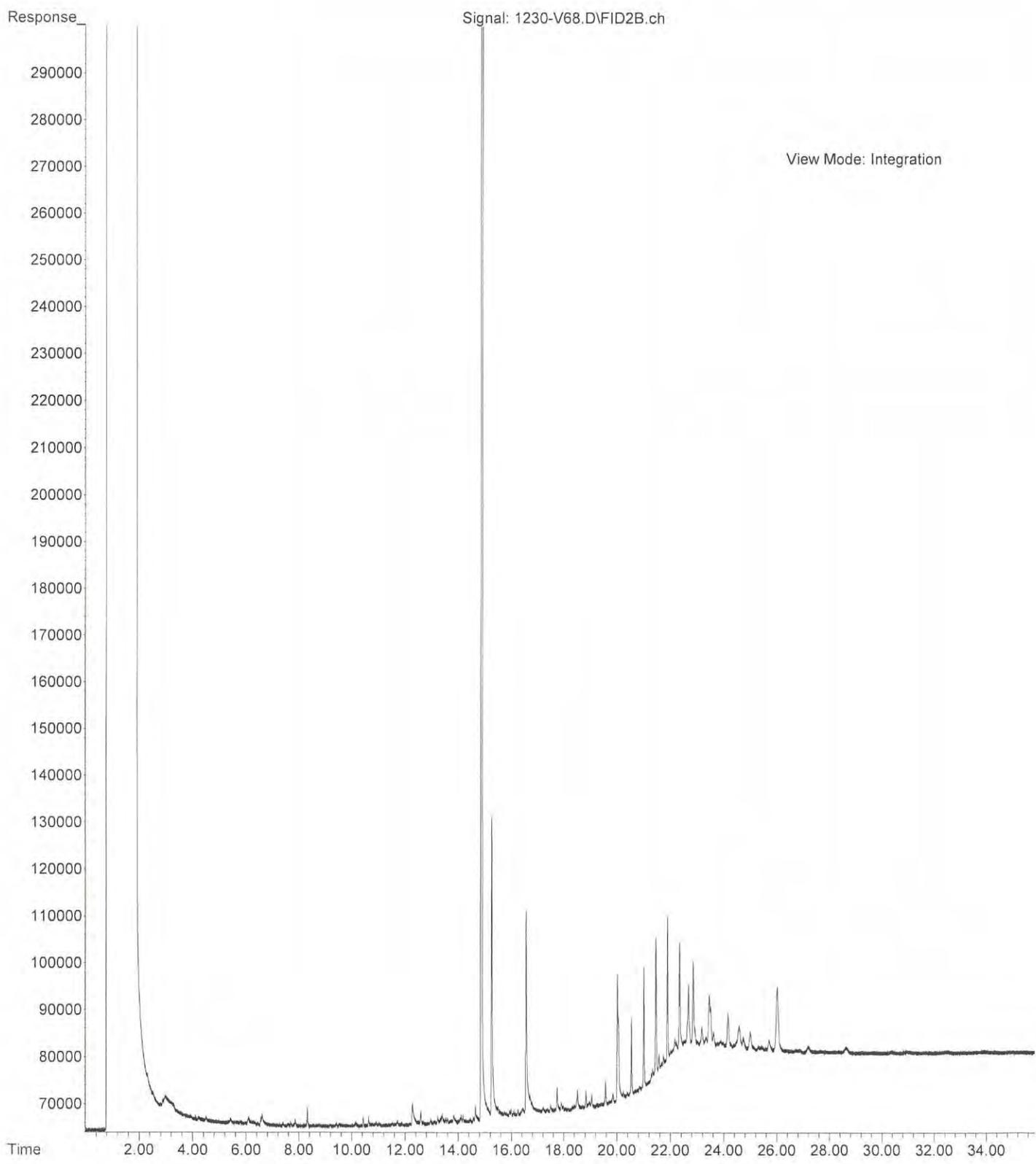
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Operator :
Acquired : 27 Dec 2016 17:04 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-188-09d
Misc Info :
Vial Number: 17



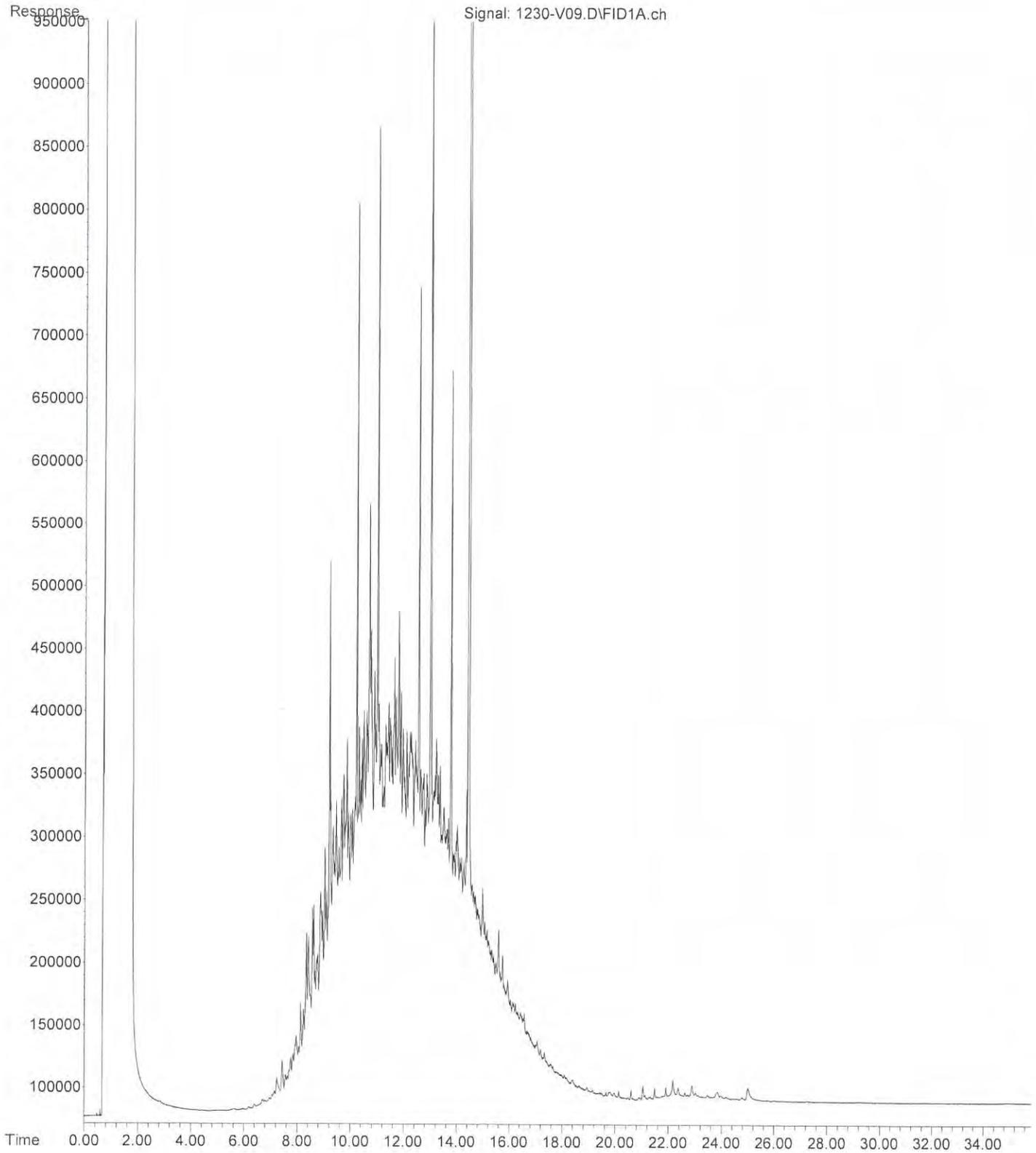
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Operator :
Acquired : 27 Dec 2016 12:33 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-188-10d
Misc Info :
Vial Number: 9



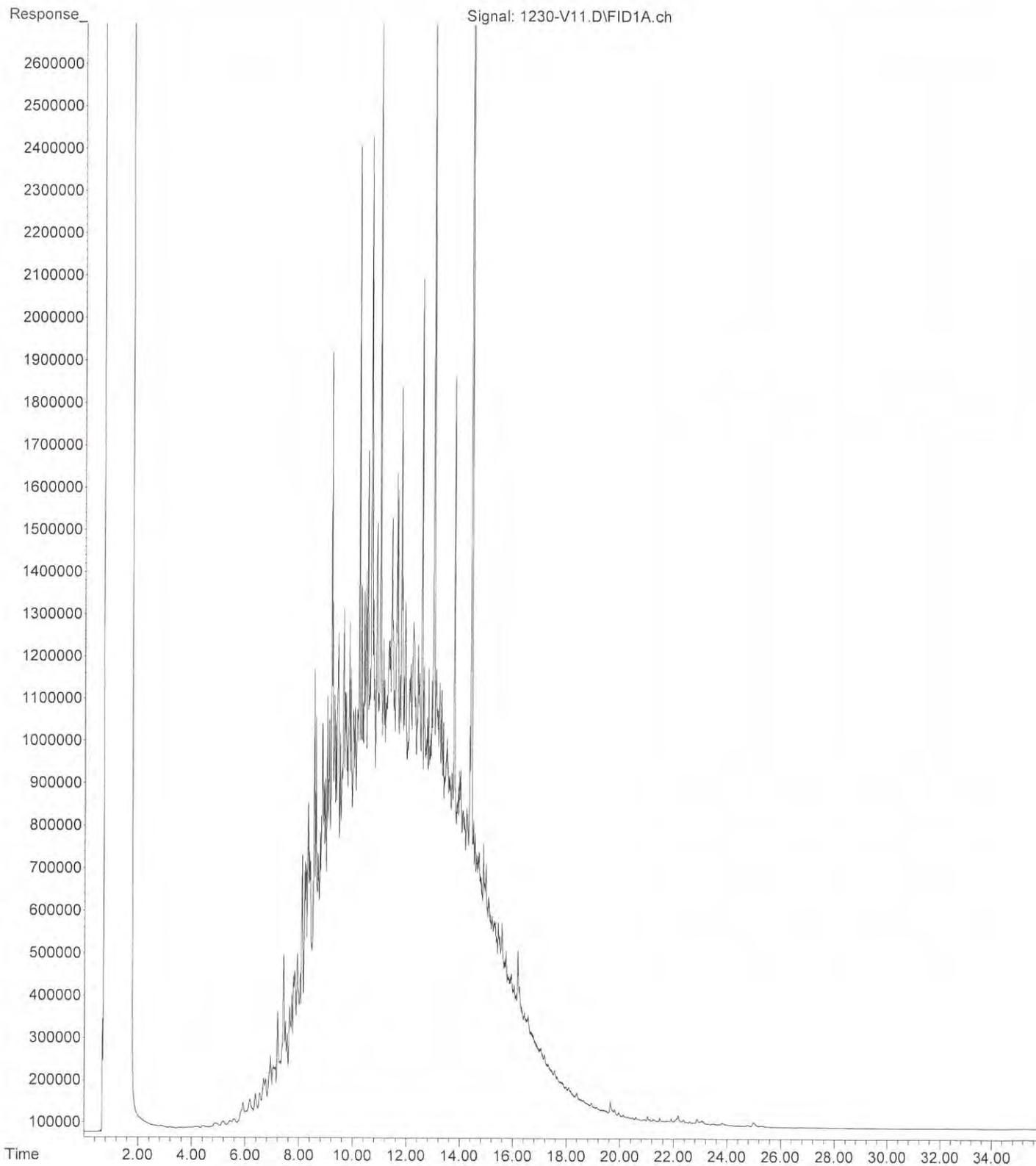
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Operator :
Acquired : 31 Dec 2016 3:20 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 12-188-01
Misc Info :
Vial Number: 68



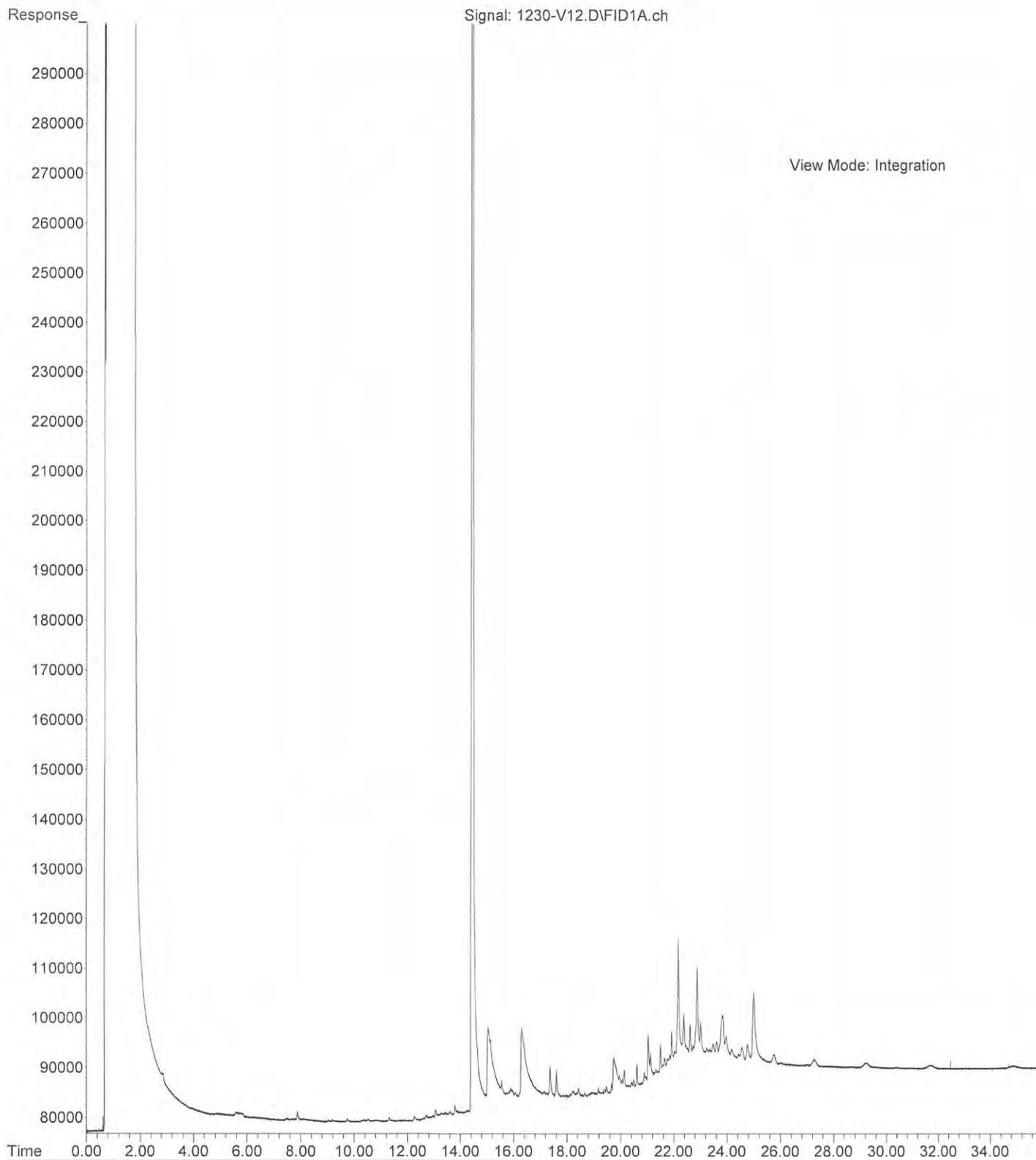
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Operator :
Acquired : 30 Dec 2016 21:12 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 12-188-02
Misc Info :
Vial Number: 9



File :X:\DIESELS\VIGO\DATA\V161230\1230-V11.D
Operator :
Acquired : 30 Dec 2016 22:34 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 12-188-03
Misc Info :
Vial Number: 11



File :X:\DIESELS\VIGO\DATA\V161230\1230-V12.D
Operator :
Acquired : 30 Dec 2016 23:15 using AcqMethod V160602F.M
Instrument : Vigo
Sample Name: 12-188-08
Misc Info :
Vial Number: 12





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 28, 2016

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-189

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 22, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 28, 2016
Samples Submitted: December 22, 2016
Laboratory Reference: 1612-189
Project: 0183-109-01

Case Narrative

Samples were collected on December 22, 2016 and received by the laboratory on December 22, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 28, 2016
Samples Submitted: December 22, 2016
Laboratory Reference: 1612-189
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
BL-MW3-161222	12-189-01	Water	12-22-16	12-22-16	
BL-MW6-161222	12-189-02	Water	12-22-16	12-22-16	
DUP-161222	12-189-03	Water	12-22-16	12-22-16	
CR-MW5-161222	12-189-04	Water	12-22-16	12-22-16	
CR-MW6-161222	12-189-05	Water	12-22-16	12-22-16	
TB-20161222	12-189-06	Water	12-22-16	12-22-16	



Date of Report: December 28, 2016
 Samples Submitted: December 22, 2016
 Laboratory Reference: 1612-189
 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW5-161222					
Laboratory ID:	12-189-04					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	61-118				
Client ID:	CR-MW6-161222					
Laboratory ID:	12-189-05					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	82	61-118				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW3-161222					
Laboratory ID:	12-189-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	1.4	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	17	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	24	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW3-161222					
Laboratory ID:	12-189-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW6-161222					
Laboratory ID:	12-189-02					
Dichlorodifluoromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	20	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	91	4.0	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	20	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	9.3	4.0	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	20	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	15	4.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	550	4.0	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	390	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	4.0	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	BL-MW6-161222					
Laboratory ID:	12-189-02					
1,1,2-Trichloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	20	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	4.0	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	20	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	4.0	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161222					
Laboratory ID:	12-189-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	1.3	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	16	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	23	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-161222					
Laboratory ID:	12-189-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW5-161222					
Laboratory ID:	12-189-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Benzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Toluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW5-161222					
Laboratory ID:	12-189-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-27-16	12-27-16	
o-Xylene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW6-161222					
Laboratory ID:	12-189-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	0.37	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	0.32	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	4.8	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Benzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	1.2	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Toluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW6-161222					
Laboratory ID:	12-189-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-27-16	12-27-16	
o-Xylene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161222					
Laboratory ID:	12-189-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Benzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Toluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161222					
Laboratory ID:	12-189-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-27-16	12-27-16	
o-Xylene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W2					
Gasoline	ND	100	NWTPH-Gx	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	76	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-189-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				85	80	61-118		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1227W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloromethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Iodomethane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chloroform	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Benzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Trichloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromomethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Toluene	ND	1.0	EPA 8260C	12-27-16	12-27-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-27-16	12-27-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1227W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-27-16	12-27-16	
o-Xylene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromoform	ND	1.0	EPA 8260C	12-27-16	12-27-16	
Isopropylbenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Bromobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-27-16	12-27-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-27-16	12-27-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-27-16	12-27-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>80-125</i>				



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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1227W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.72	10.1	10.0	10.0	97	101	63-127	4	17	
Benzene	10.6	11.3	10.0	10.0	106	113	76-121	6	12	
Trichloroethene	7.85	8.11	10.0	10.0	79	81	64-114	3	15	
Toluene	9.85	10.3	10.0	10.0	99	103	82-115	4	13	
Chlorobenzene	9.83	10.3	10.0	10.0	98	103	80-115	5	14	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>104</i>	<i>103</i>	<i>77-129</i>			
<i>Toluene-d8</i>					<i>100</i>	<i>100</i>	<i>80-127</i>			
<i>4-Bromofluorobenzene</i>					<i>103</i>	<i>100</i>	<i>80-125</i>			



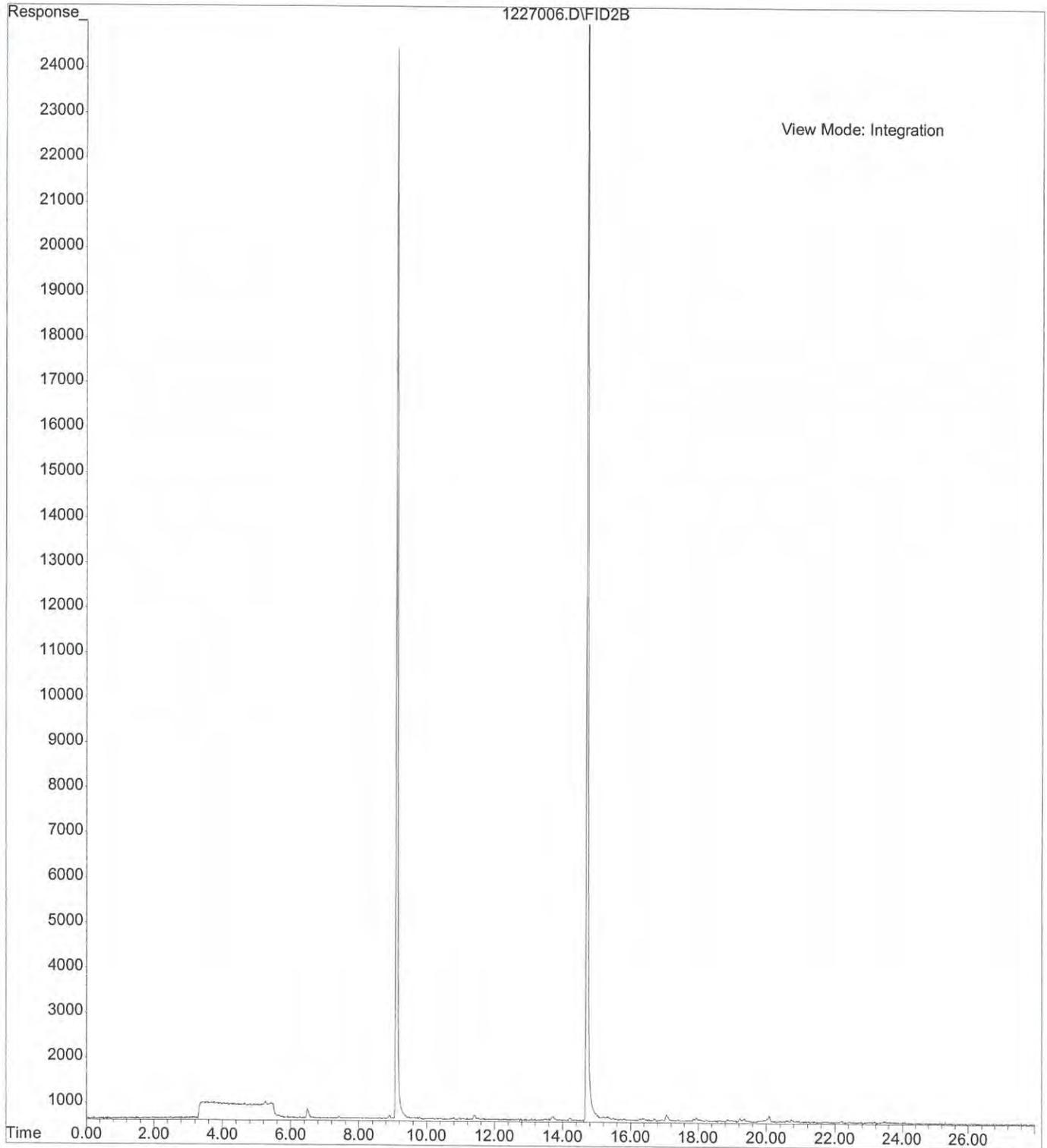


Data Qualifiers and Abbreviations

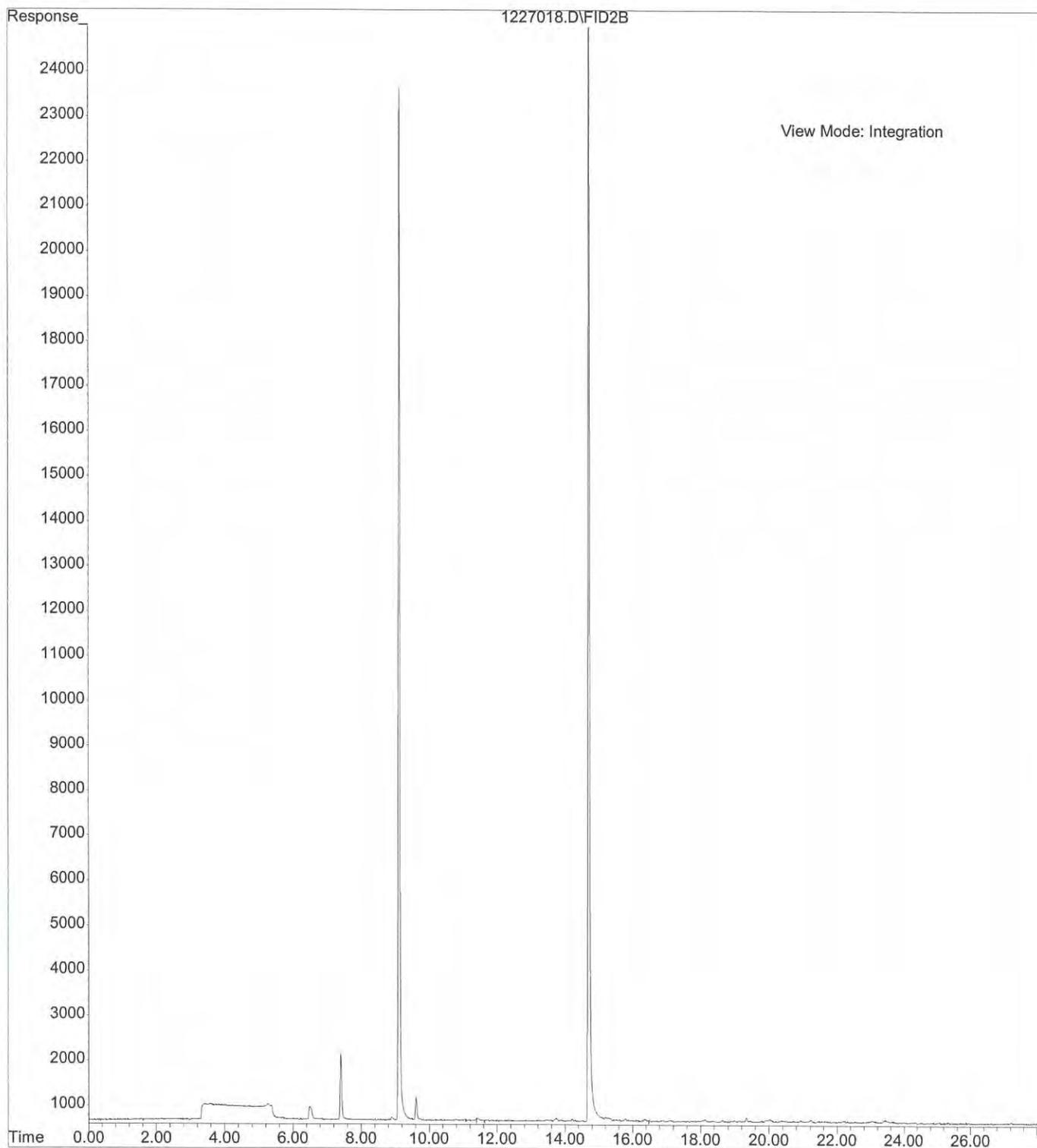
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



File : X:\BTEX\HOPE\DATA\H161227\1227006.D
Operator :
Acquired : 27 Dec 2016 10:41 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-189-04c
Misc Info :
Vial Number: 6



File : X:\BTEX\HOPE\DATA\H161227\1227018.D
Operator :
Acquired : 27 Dec 2016 17:38 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-189-05c
Misc Info :
Vial Number: 18





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 6, 2017

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1612-215

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on December 29, 2016.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2017
Samples Submitted: December 29, 2016
Laboratory Reference: 1612-215
Project: 0183-109-01

Case Narrative

Samples were collected on December 28, 2016 and received by the laboratory on December 29, 2016. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: January 6, 2017
Samples Submitted: December 29, 2016
Laboratory Reference: 1612-215
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
CR-MW15-161228	12-215-01	Water	12-28-16	12-29-16	
SH-MW7-161228	12-215-02	Water	12-28-16	12-29-16	
A6-MW1S-161228	12-215-03	Water	12-28-16	12-29-16	
A6-MW2D-161228	12-215-04	Water	12-28-16	12-29-16	
A6-MW2S-161228	12-215-05	Water	12-28-16	12-29-16	
TB-20161228	12-215-06	Water	12-28-16	12-29-16	



Date of Report: January 6, 2017
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 Project: 0183-109-01

NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW15-161228					
Laboratory ID:	12-215-01					
Gasoline	ND	100	NWTPH-Gx	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	79	61-118				
Client ID:	SH-MW7-161228					
Laboratory ID:	12-215-02					
Gasoline	340	100	NWTPH-Gx	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	76	61-118				
Client ID:	TB-20161228					
Laboratory ID:	12-215-06					
Gasoline	ND	100	NWTPH-Gx	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	78	61-118				



Date of Report: January 6, 2017
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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW15-161228					
Laboratory ID:	12-215-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	1.4	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	CR-MW15-161228					
Laboratory ID:	12-215-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>80-125</i>				



Date of Report: January 6, 2017
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SH-MW7-161228					
Laboratory ID:	12-215-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	0.41	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	1.5	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	1.1	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	0.50	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SH-MW7-161228					
Laboratory ID:	12-215-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-161228					
Laboratory ID:	12-215-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	3.9	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	1.7	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1S-161228					
Laboratory ID:	12-215-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	7.2	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-161228					
Laboratory ID:	12-215-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2D-161228					
Laboratory ID:	12-215-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>80-125</i>				



Date of Report: January 6, 2017
 Samples Submitted: December 29, 2016
 Laboratory Reference: 1612-215
 Project: 0183-109-01

HALOGENATED VOLATILES EPA 8260C

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-161228					
Laboratory ID:	12-215-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW2S-161228					
Laboratory ID:	12-215-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>80-125</i>				



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HALOGENATED VOLATILES EPA 8260C

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161228					
Laboratory ID:	12-215-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-20161228					
Laboratory ID:	12-215-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>80-125</i>				



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**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1230W1					
Gasoline	ND	100	NWTPH-Gx	12-30-16	12-30-16	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	72	61-118				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-215-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				79	76	61-118		



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1230W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloromethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Vinyl Chloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroethane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Iodomethane	ND	1.4	EPA 8260C	12-30-16	12-30-16	
Methylene Chloride	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chloroform	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Benzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Trichloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromomethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromodichloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Toluene	ND	1.0	EPA 8260C	12-30-16	12-30-16	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-30-16	12-30-16	



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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:		MB1230W1				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Tetrachloroethene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Dibromochloromethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Chlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Ethylbenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
m,p-Xylene	ND	0.40	EPA 8260C	12-30-16	12-30-16	
o-Xylene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Bromoform	ND	1.0	EPA 8260C	12-30-16	12-30-16	
Bromobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-30-16	12-30-16	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-30-16	12-30-16	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-30-16	12-30-16	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>Dibromofluoromethane</i>	<i>103</i>	<i>77-129</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>80-125</i>				



Date of Report: January 6, 2017
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 Laboratory Reference: 1612-215
 Project: 0183-109-01

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1230W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.45	9.91	10.0	10.0	95	99	63-127	5	17	
Benzene	10.2	11.1	10.0	10.0	102	111	76-121	8	12	
Trichloroethene	7.61	7.88	10.0	10.0	76	79	64-114	3	15	
Toluene	9.72	10.4	10.0	10.0	97	104	82-115	7	13	
Chlorobenzene	9.28	9.82	10.0	10.0	93	98	80-115	6	14	
<i>Surrogate:</i>										
Dibromofluoromethane					100	101	77-129			
Toluene-d8					100	98	80-127			
4-Bromofluorobenzene					106	104	80-125			



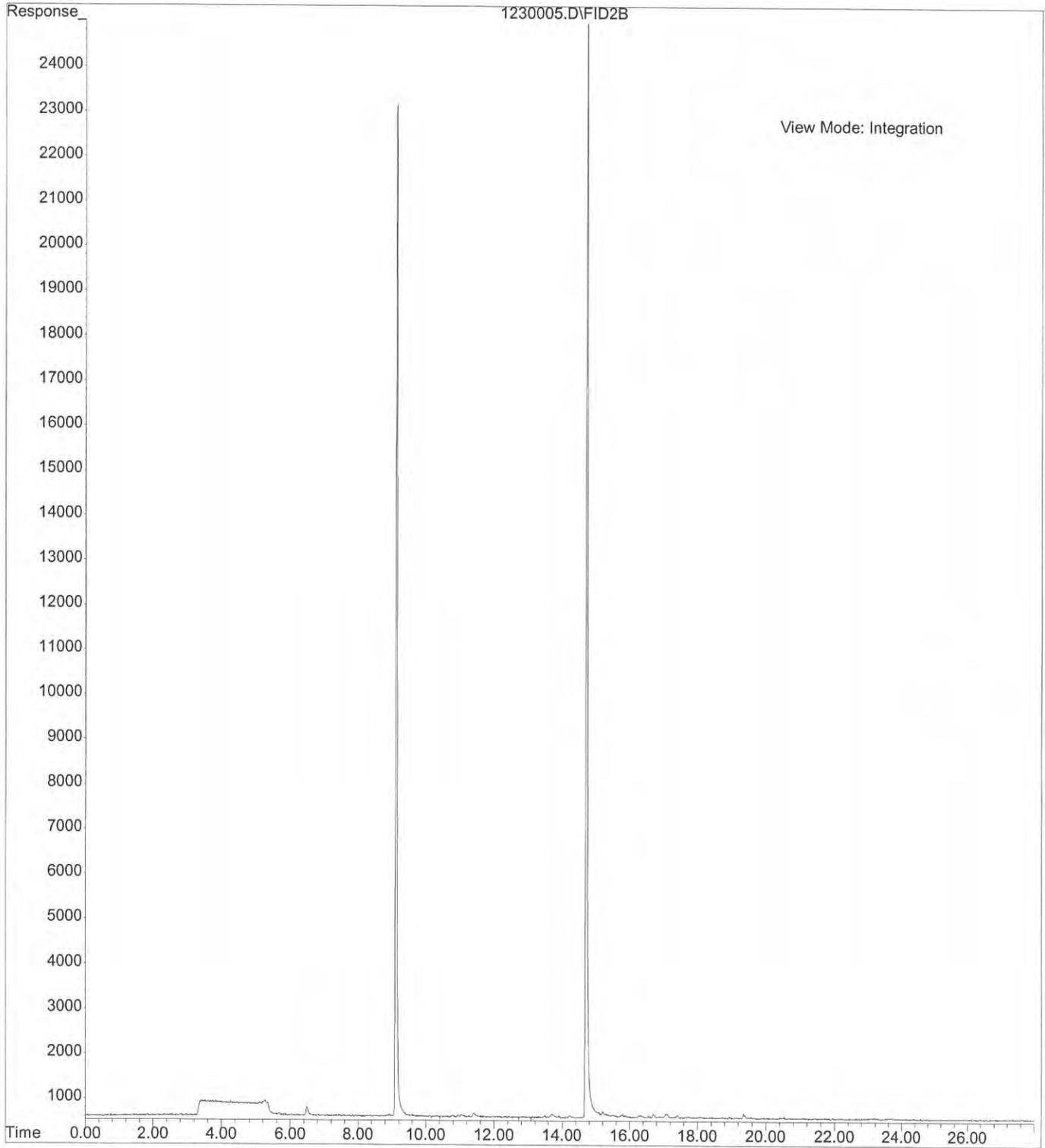


Data Qualifiers and Abbreviations

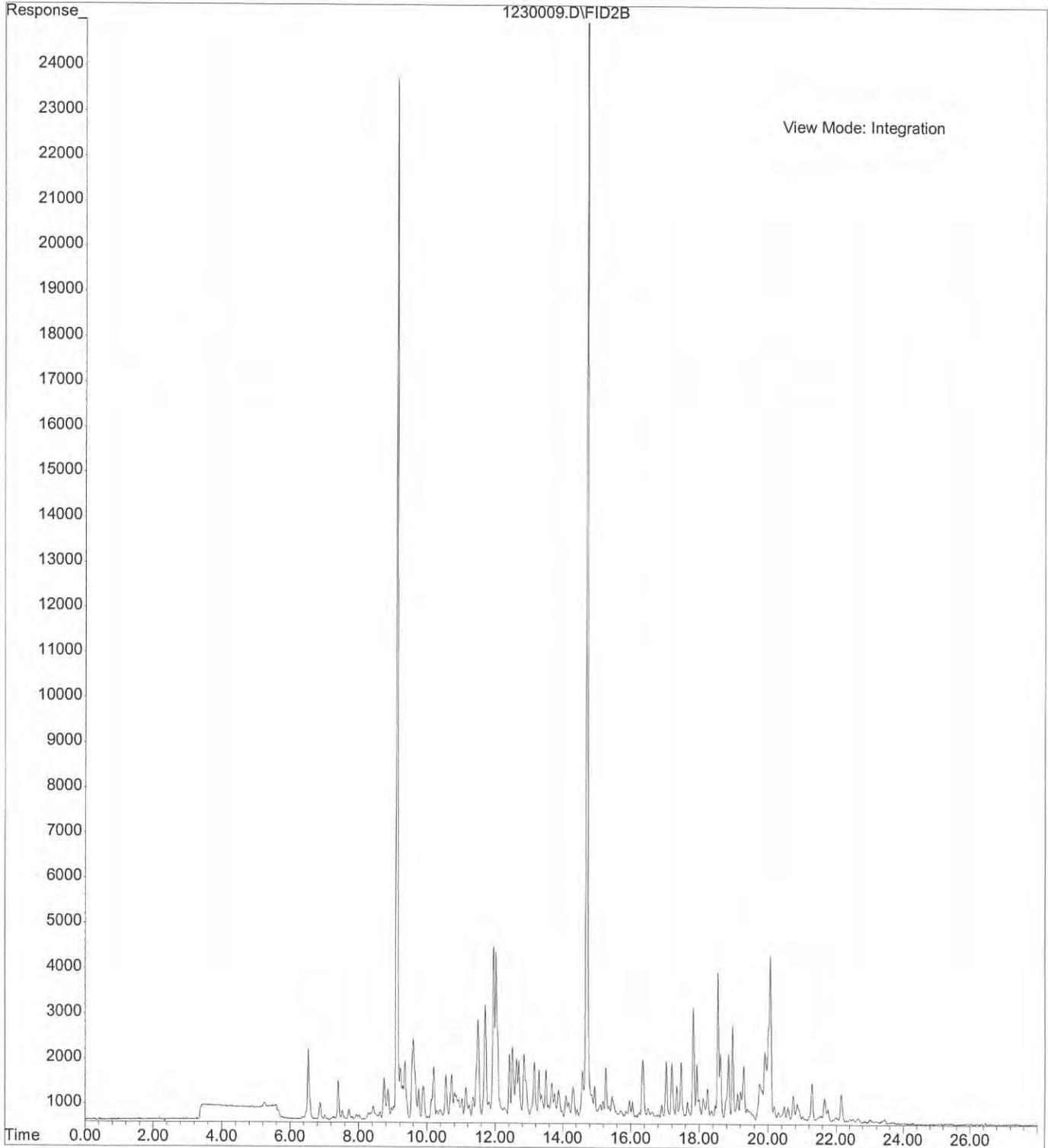
- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



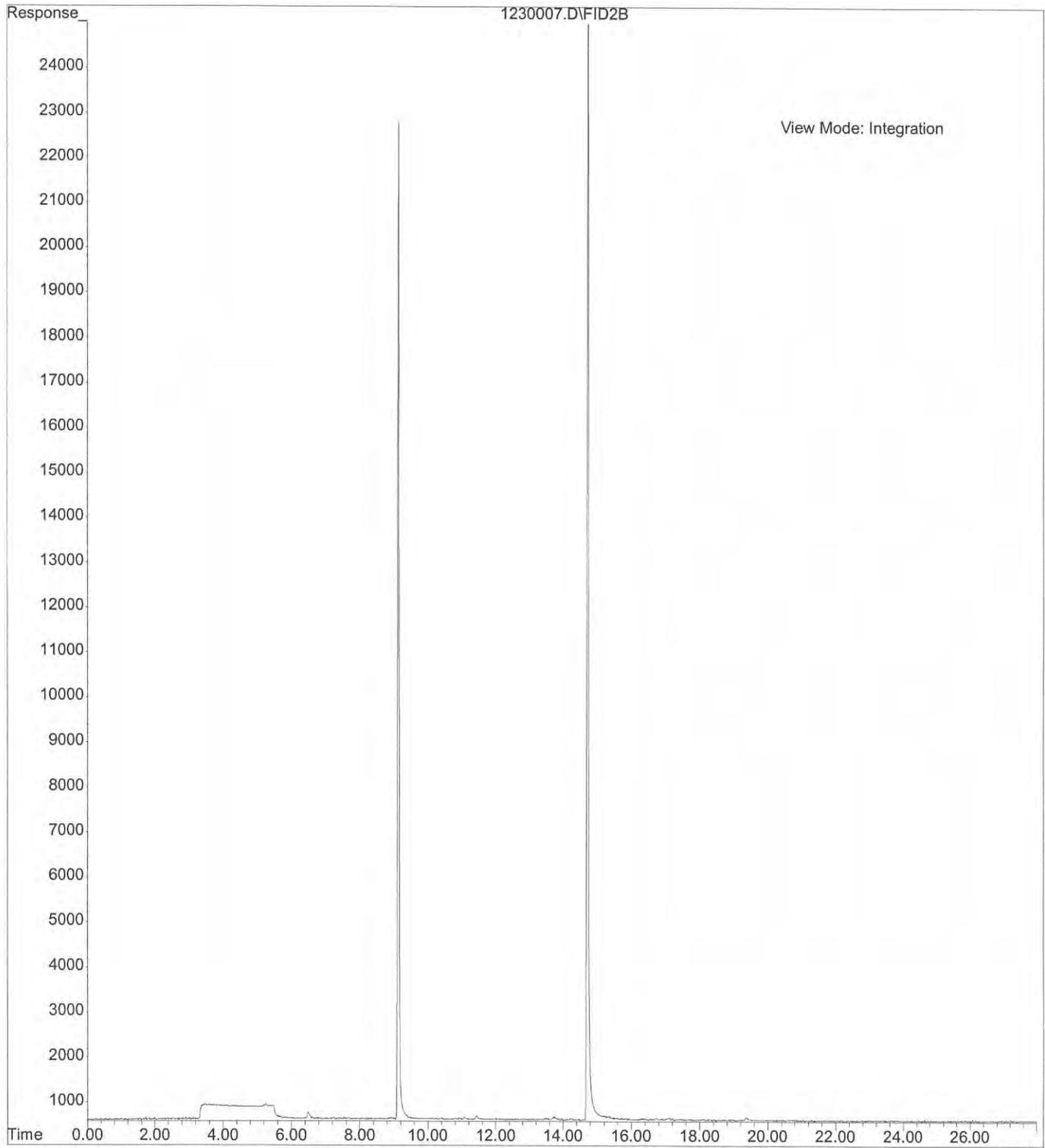
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Instrument : Hope
Sample Name: 12-215-01c
Misc Info :
Vial Number: 5

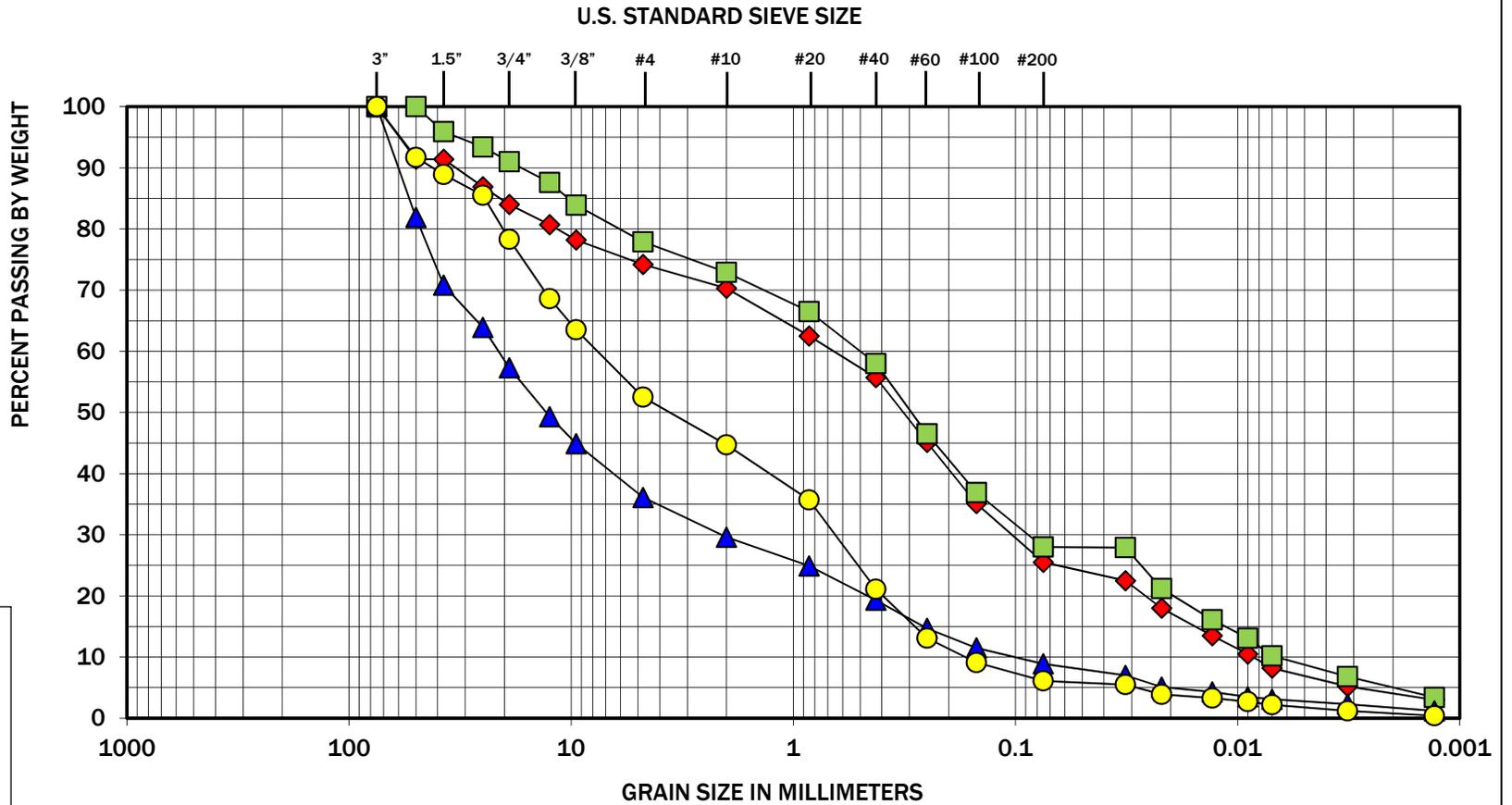


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Acquired : 30 Dec 2016 11:48 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-215-02d
Misc Info :
Vial Number: 9



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Operator :
Acquired : 30 Dec 2016 10:40 using AcqMethod 161103B.M
Instrument : Hope
Sample Name: 12-215-06c
Misc Info :
Vial Number: 7







WWT-RI
Tacoma, WA

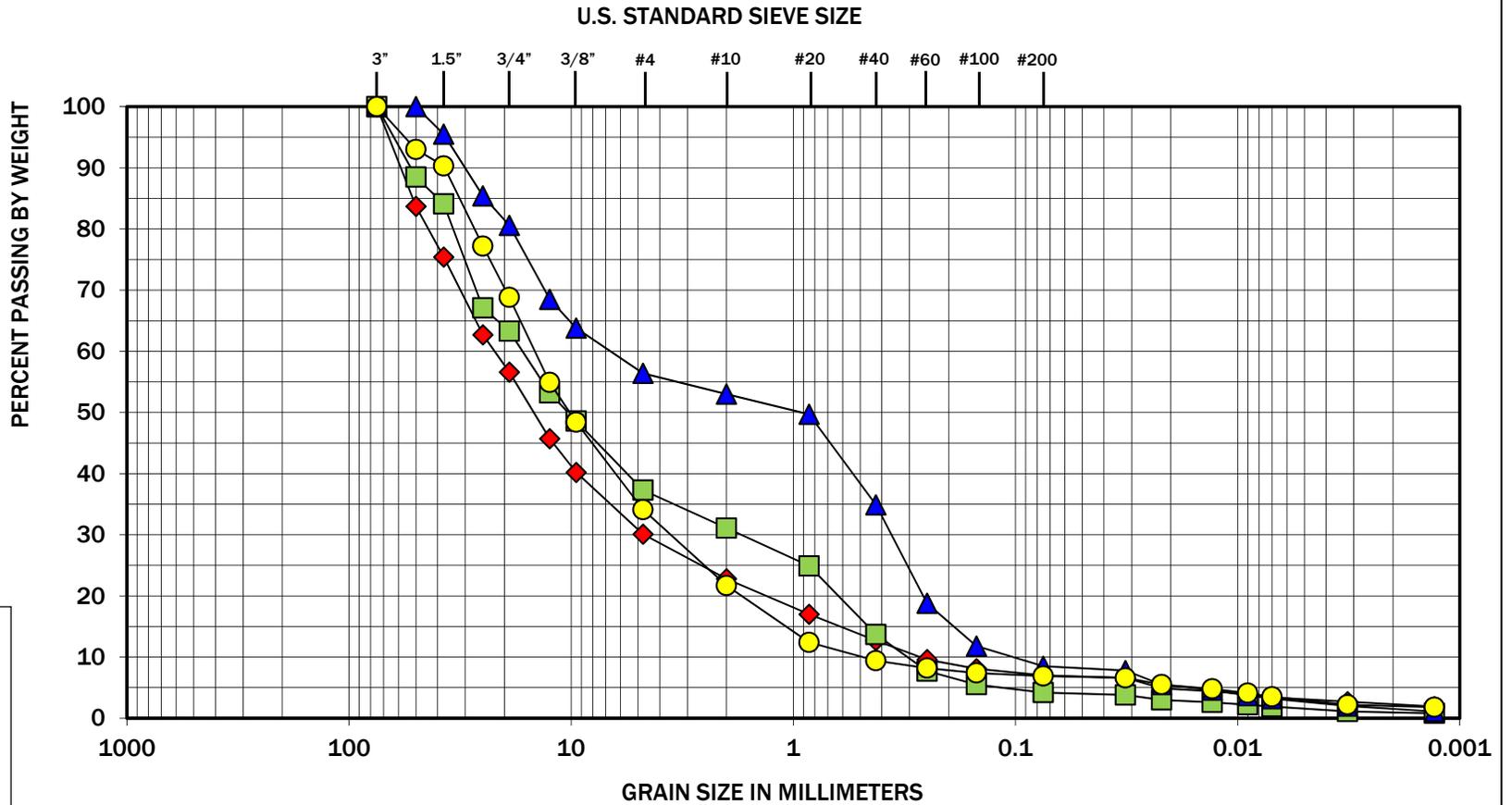
Sieve Analysis Results

Figure A-#

Symbol	Boring Number	Depth (feet)	Moisture (%)	Soil Description
◆	A6-MW1D-14-15	14 to 15	6.9	Silty sand with gravel (SM)
■	A6-MW1D-20-21	20 to 21	7.4	Silty sand with gravel (SM)
▲	A6-MW1D-35-36	35 to 36	7.4	Poorly graded gravel with silt and sand(GP-GM)
●	A6-MW1D-44-45	44 to 45	7.6	Poorly graded gravel with silt and sand(GP-GM)

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The grain size analysis results were obtained by a third party lab, and the data was placed into GeoEngineers' data sheets.



GEOENGINEERS

WV-T-RI
Tacoma, WA

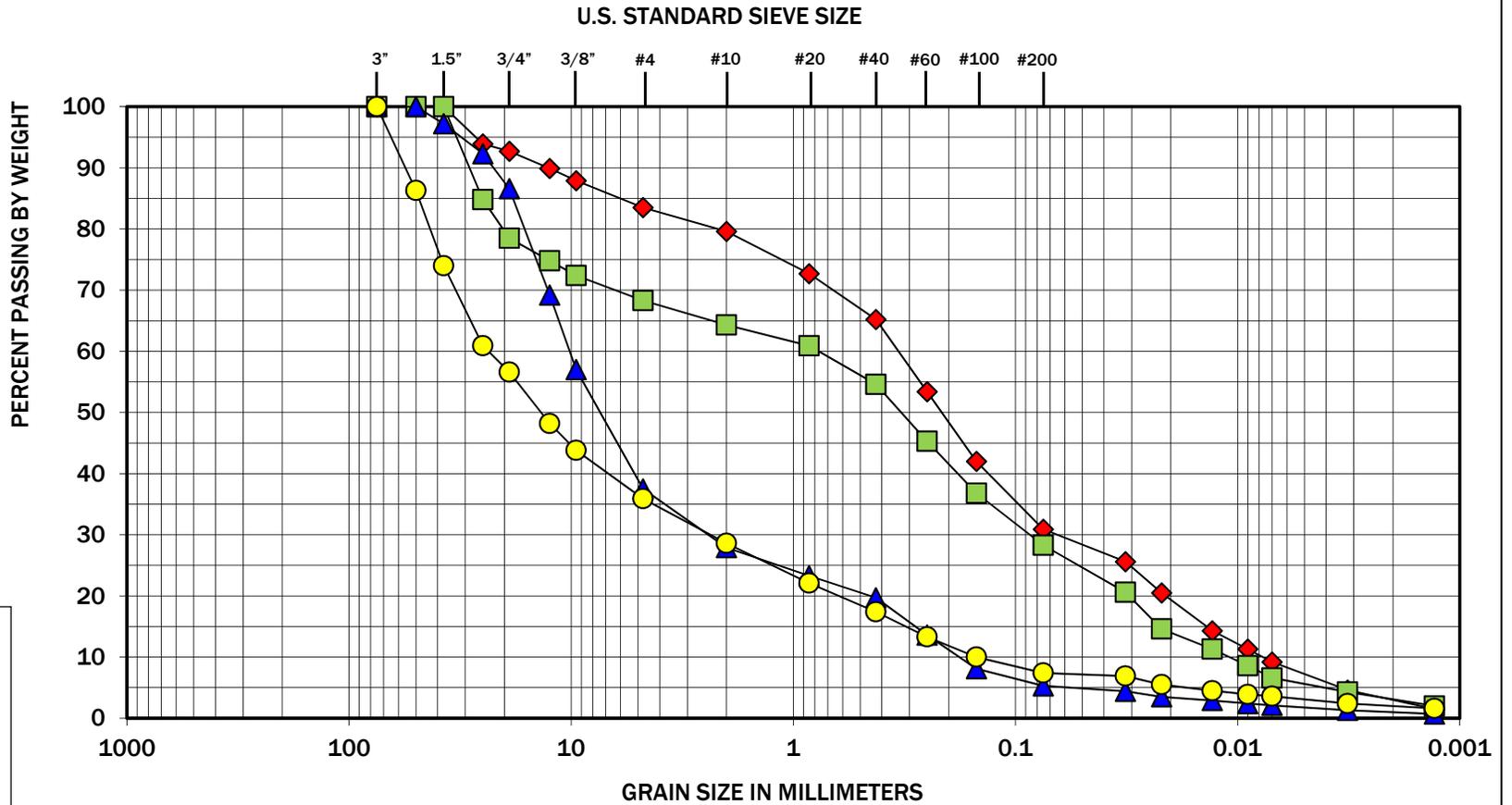
Sieve Analysis Results

Figure A-#

Symbol	Boring Number	Depth (feet)	Moisture (%)	Soil Description
◆	A9-MW1D-16-17	16 to 17	4.7	Poorly graded gravel with silt and sand (GP-GM)
■	A9-MW1D-19-20	19 to 20	-	Poorly graded gravel with sand (GP)
▲	A9-MW1D-23-24	23 to 24	-	Poorly graded sand with silt and gravel (SP-SM)
●	A9-MW1D-33-34	33 to 34	4.7	Poorly graded gravel with silt and sand (GP-GM)

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The grain size analysis results were obtained by a third party lab, and the data was placed into GeoEngineers' data sheets.



Symbol	Boring Number	Depth (feet)	Moisture (%)	Soil Description
◆	UG-MW36D-8-9	8 to 9	5.9	Silty sand with gravel (SM)
■	UG-MW36D-10-11	10 to 11	7.3	Silty sand with gravel (SM)
▲	UG-MW36D-24-25	24 to 25	6.8	Poorly graded gravel with silt and sand (GP-GM)
●	UG-MW36D-29-30	29 to 30	7.3	Poorly graded gravel with silt and sand (GP-GM)

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The grain size analysis results were obtained by a third party lab, and the data was placed into GeoEngineers' data sheets.

WVTR-I
Tacoma, WA

Sieve Analysis Results

Figure A-#

Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Project: VWT-RI
Project #: 17T012
Client : GeoEngineers
Source: Multiple
MTC Sample#: Multiple

Date Received: February 20, 2017
Sampled By: Others
Date Tested: March 7, 2017
Tested By: B. Goble, K. O'Connell

CASE NARRATIVE

1. Fourteen samples were submitted for grain size distribution according to ASTM D422. The samples were prepared according to ASTM D421. The correlating specific gravities were used in the hydrometer calculations for samples A6-MW1D-14-15, A9-MW1D-44-45 and UG-MW36D-10-11. An assumed specific gravity of 2.65 was used in the hydrometer calculations for the remaining samples. A standard milkshake mixer type device was used to disperse the fine fraction sample for one minute.
2. Twelve samples were submitted for pH measurement according to EPA 9045D. Each sample was screed over a No. 10 sieve. Ten grams of the less than No. 10 material and 10 mL of DI water was added to the test tube. The slurry was mixed on a vortex mixer. The pH is reported at 25°C.
3. Twelve samples were submitted for bulk density according to ASTM D7263, Method B. The samples were remolded and compacted to eliminate air voids.
4. Three samples were submitted for porosity according to EM 1110-2-1906.
5. The data is provided in summary tables and plots.
6. There were no noted anomalies in this project.

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Reviewed by: _____

B. Goble

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Materials Testing & Consulting, Inc.

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Project: VWT-RI
 Project #: 17T012
 Date Received: February 20, 2017
 Date Tested: March 7, 2017

Client: GeoEngineers
 Sampled by: Others
 Tested by: B. Goble, K. O'Connell

Percent Finer (Passing) Than the Indicated Size

Sieve Size (microns)	3"	2"	1 1/2"	1"	3/4"	1/2"	3/8"	#4 (4750)	#10 (2000)	#20 (850)	#40 (425)	#60 (250)	#100 (150)	#200 (75)	32	22	13	9	7	3.2	1.3
A6-MW1D-14-15	100.0	91.4	91.4	86.9	84.0	80.7	78.2	74.2	70.3	62.5	55.7	45.1	35.1	25.5	22.5	18.0	13.5	10.5	8.2	5.2	3.0
A6-MW1D-20-21	100.0	100.0	95.9	93.4	91.0	87.6	83.9	77.9	72.9	66.5	58.0	46.5	36.9	28.0	27.9	21.2	16.1	13.1	10.2	6.8	3.4
A6-MW1D-35-36	100.0	81.9	70.8	63.9	57.3	49.3	44.9	36.1	29.6	24.9	19.3	14.7	11.5	8.9	7.0	5.1	4.3	3.5	3.1	2.3	1.2
A6-MW1D-44-45	100.0	91.7	88.9	85.5	78.3	68.6	63.5	52.5	44.7	35.7	21.1	13.1	9.1	6.1	5.5	3.9	3.3	2.7	2.2	1.2	0.4
A9-MW1D-16-17	100.0	83.7	75.4	62.7	56.6	45.7	40.2	30.1	22.8	17.0	12.7	9.6	8.1	7.0	6.6	4.9	4.4	3.9	3.4	2.7	1.9
A9-MW1D-19-20	100.0	88.5	84.1	67.1	63.3	53.2	48.6	37.3	31.1	24.9	13.7	7.7	5.5	4.2	3.8	3.0	2.6	2.2	1.9	1.1	0.8
A9-MW1D-23-24	100.0	100.0	95.5	85.4	80.6	68.5	63.8	56.4	53.0	49.7	34.9	18.8	11.8	8.5	7.8	5.5	4.6	3.7	3.2	2.0	1.1
A9-MW1D-33-34	100.0	93.0	90.3	77.2	68.8	54.9	48.4	34.1	21.7	12.4	9.4	8.2	7.4	6.9	6.6	5.5	4.8	4.1	3.5	2.5	1.8
A9-MW1D-44-45	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.7	99.5	98.3	89.0	62.0	48.6	37.7	35.2	26.8	15.9	8.4
A9-MW1D-64-65	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	98.2	82.3	42.8	16.8	8.8	7.1	5.7	4.4	2.6	0.9
UG-MW36D-8-9	100.0	100.0	100.0	93.9	92.7	89.9	87.9	83.5	79.6	72.7	65.2	53.4	42.0	30.9	25.6	20.5	14.3	11.3	9.2	4.6	1.5
UG-MW36D-10-11	100.0	100.0	100.0	84.8	78.5	74.8	72.4	68.3	64.3	60.9	54.6	45.3	36.8	28.3	20.6	14.6	11.3	8.6	6.6	4.3	2.0
UG-MW36D-24-25	100.0	100.0	97.2	92.3	86.6	69.2	57.0	37.5	27.9	23.3	19.7	13.6	8.1	5.3	4.4	3.5	2.9	2.4	2.1	1.3	0.7
UG-MW36D-29-30	100.0	86.3	74.0	60.9	56.6	48.2	43.8	35.9	28.6	22.1	17.4	13.3	10.0	7.4	6.9	5.5	4.5	3.9	3.6	2.4	1.6

Testing performed according to ASTM D421/D422

Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: *B. Goble*

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Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Project: VWT-RI
Project #: 17T012
Date Received: February 20, 2017
Date Tested: March 7, 2017

Client: GeoEngineers
Sampled by: Others
Tested by: B. Goble, K. O'Connell

Percent Retained in Each Size Fraction

Description	% Coarse Gravel				% Gravel			% Coarse Sand	% Medium Sand		% Fine Sand			% Very Coarse Silt	% Coarse Silt	% Medium Silt	% Fine Silt	% Fine Silt	% Very Fine Silt	% Clay	
	3-2"	2-1 1/2"	1 1/2"-1"	1-3/4"	3/4-1/2"	1/2-3/8"	3/8"-4750	4750-2000	2000-850	850-425	425-250	250-150	150-75	75-32	32-22	22-13	13-9	9-7	7-3.2	3.2-1.3	<1.3
A6-MW1D-14-15	8.6	0.0	4.5	2.9	3.3	2.4	4.0	3.9	7.8	6.8	10.7	10.0	9.6	3.1	4.5	4.5	3.0	2.2	3.0	2.2	3.0
A6-MW1D-20-21	0.0	4.1	2.5	2.3	3.5	3.7	6.0	5.0	6.4	8.5	11.5	9.6	8.9	0.0	6.8	5.1	3.0	3.0	3.4	3.4	3.4
A6-MW1D-35-36	18.1	11.1	6.8	6.7	8.0	4.4	8.8	6.4	4.8	5.6	4.6	3.2	2.5	1.9	1.9	0.8	0.8	0.4	0.8	1.2	1.2
A6-MW1D-44-45	8.3	2.8	3.4	7.2	9.8	5.0	11.1	7.8	8.9	14.6	8.0	4.0	3.0	0.6	1.6	0.6	0.6	0.6	1.0	0.8	0.4
A9-MW1D-16-17	16.3	8.3	12.6	6.1	10.9	5.4	10.1	7.3	5.8	4.3	3.1	1.5	1.2	0.4	1.7	0.4	0.6	0.4	0.7	0.9	1.9
A9-MW1D-19-20	11.5	4.4	17.0	3.8	10.1	4.6	11.3	6.3	6.2	11.2	6.0	2.3	1.2	0.4	0.8	0.4	0.4	0.3	0.8	0.3	0.8
A9-MW1D-23-24	0.0	4.5	10.1	4.8	12.1	4.7	7.4	3.3	3.4	14.8	16.1	7.0	3.3	0.7	2.3	0.9	0.9	0.6	1.1	0.9	1.1
A9-MW1D-33-34	7.0	2.8	13.1	8.3	13.9	6.6	14.3	12.4	9.3	3.0	1.2	0.9	0.5	0.2	1.1	0.7	0.7	0.6	1.0	0.7	1.8
A9-MW1D-44-45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.2	1.2	9.3	27.0	13.4	10.9	2.5	8.4	10.9	7.5	8.4
A9-MW1D-64-65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	15.9	39.4	26.1	7.9	1.8	1.3	1.3	1.8	1.8	0.9
UG-MW36D-8-9	0.0	0.0	6.1	1.3	2.7	2.1	4.4	3.9	6.9	7.5	11.9	11.4	11.1	5.3	5.1	6.1	3.1	2.0	4.6	3.1	1.5
UG-MW36D-10-11	0.0	0.0	15.2	6.3	3.7	2.4	4.1	4.0	3.4	6.3	9.2	8.5	8.5	7.7	6.0	3.3	2.7	2.0	2.3	2.3	2.0
UG-MW36D-24-25	0.0	2.8	4.9	5.7	17.3	12.3	19.5	9.6	4.6	3.7	6.0	5.5	2.8	0.9	0.9	0.6	0.5	0.4	0.7	0.6	0.7
UG-MW36D-29-30	13.7	12.3	13.1	4.3	8.4	4.4	8.0	7.3	6.5	4.6	4.1	3.4	2.6	0.4	1.5	1.0	0.6	0.3	1.1	0.8	1.6

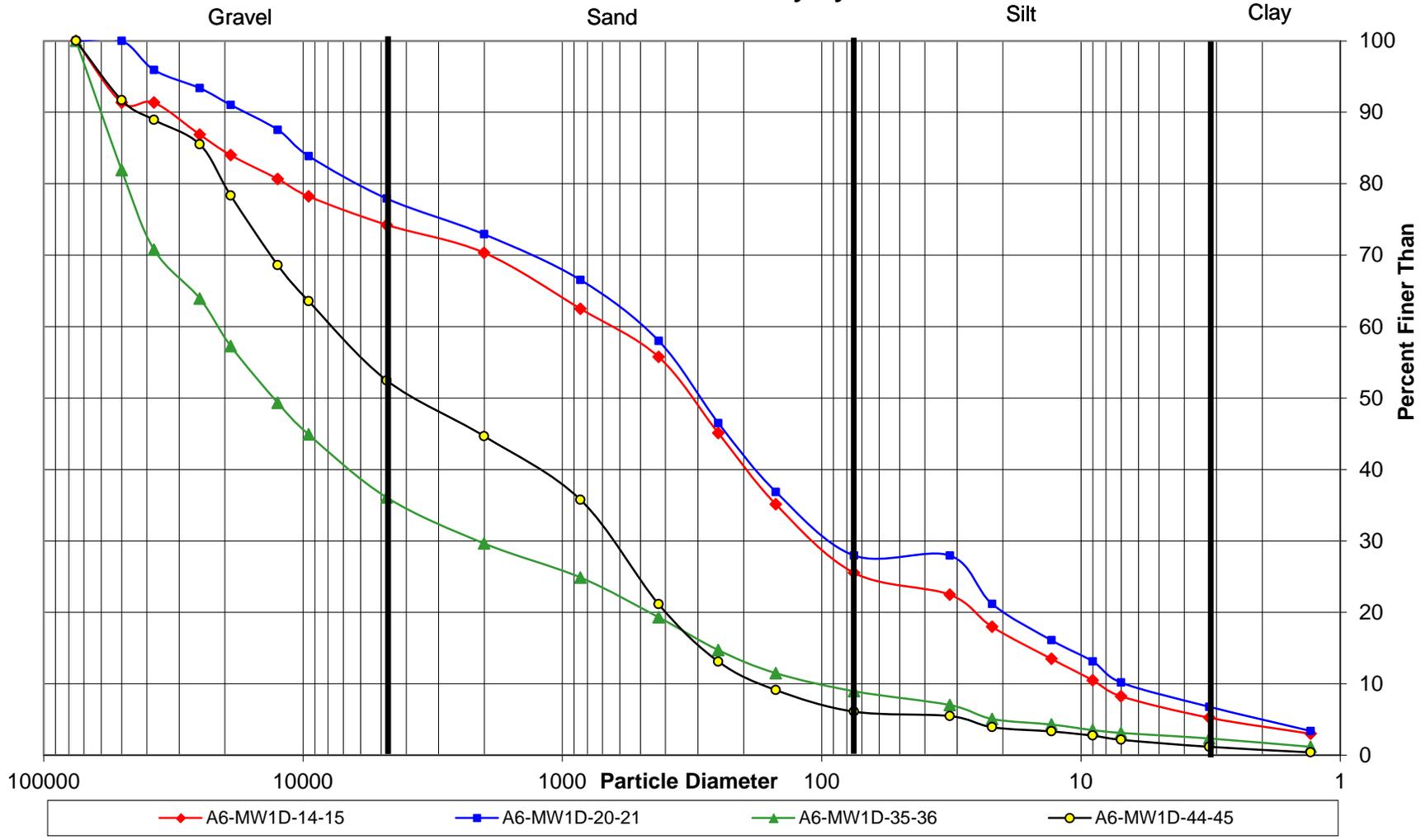
Testing performed according to ASTM D421/D422
 Organics were not removed prior to analysis. The grain size distribution reported is the "apparent grain size distribution".

Reviewed by: *E. Goble*

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Grain Size Distribution by Hydrometer





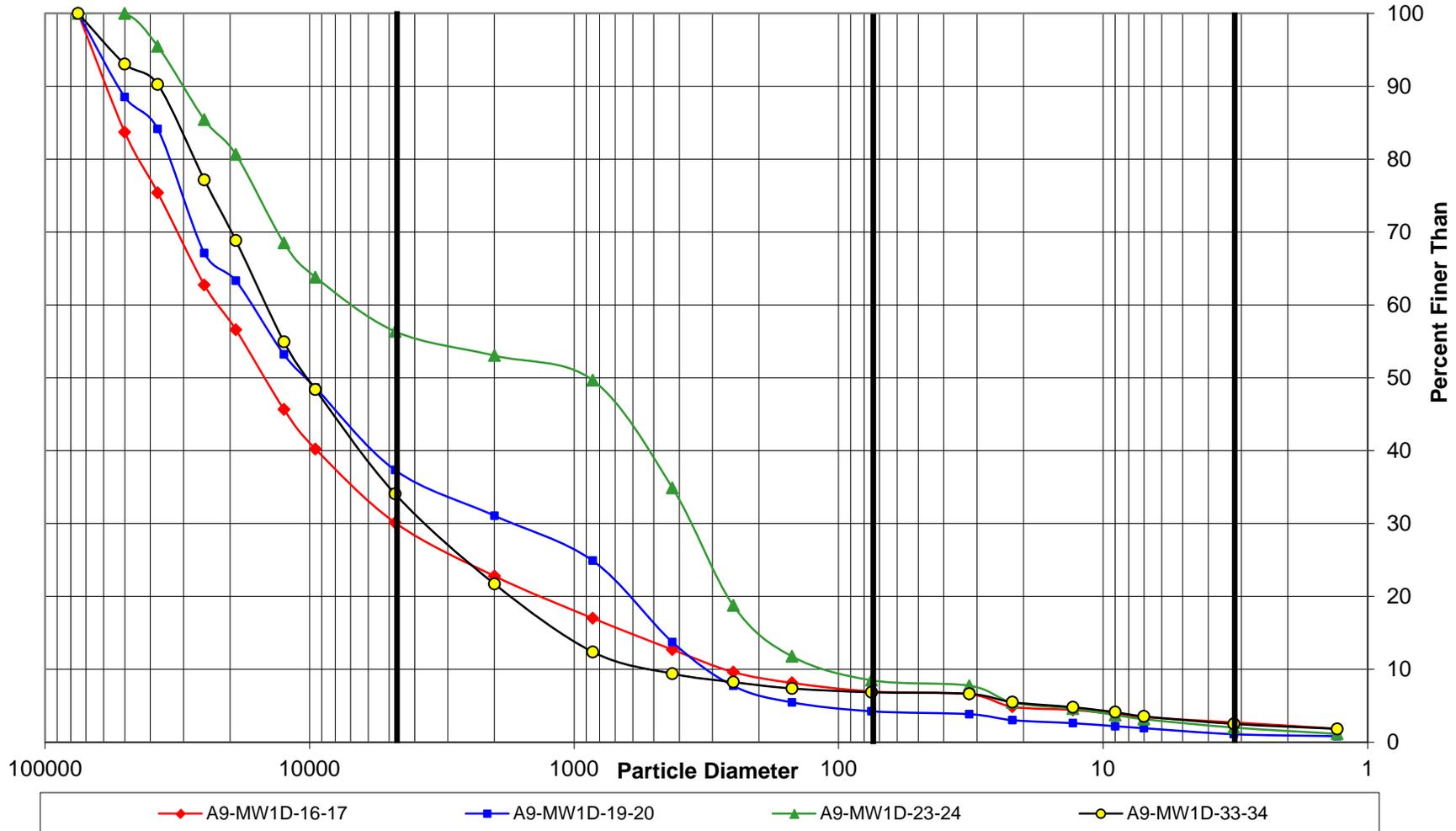
Grain Size Distribution by Hydrometer

Gravel

Sand

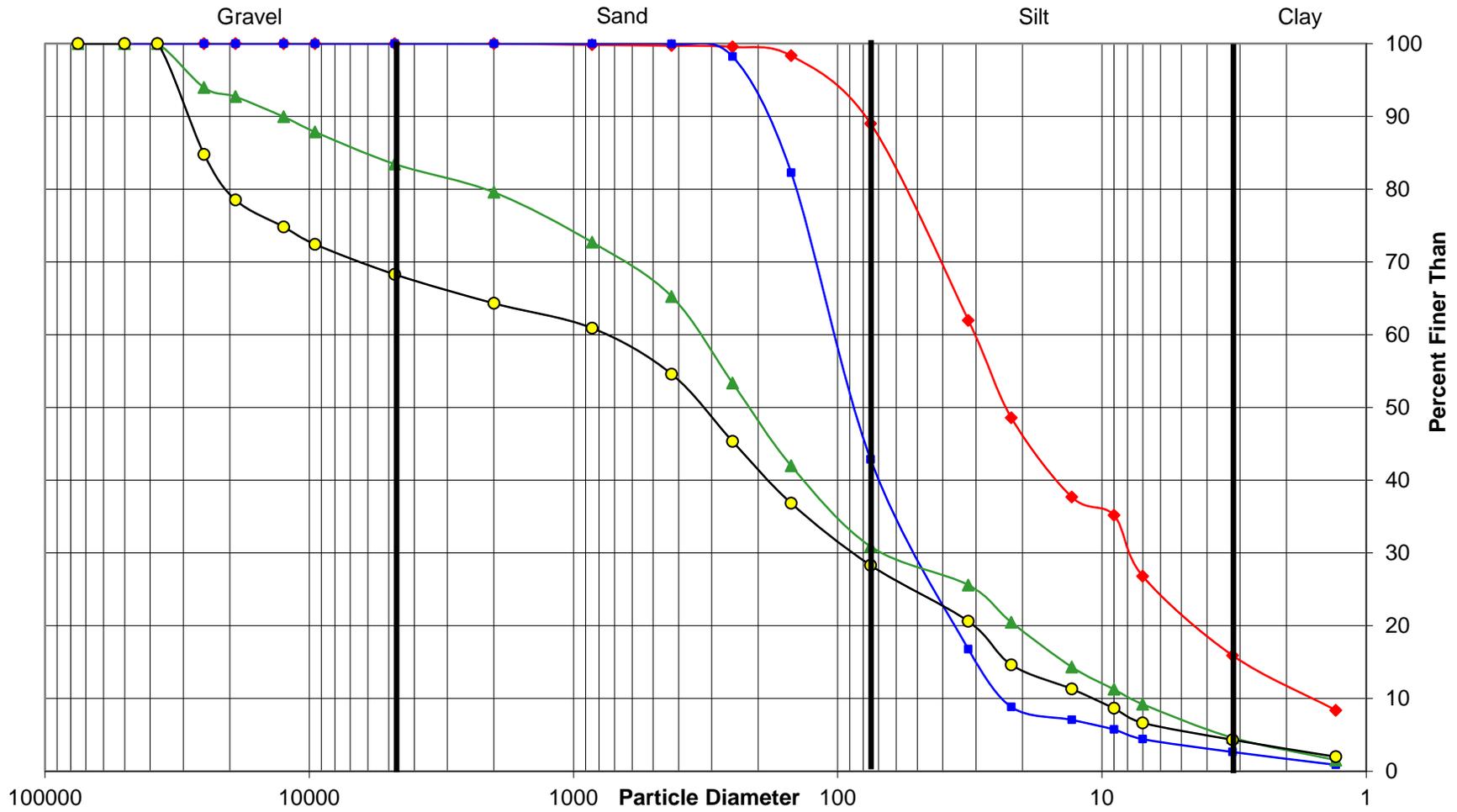
Silt

Clay



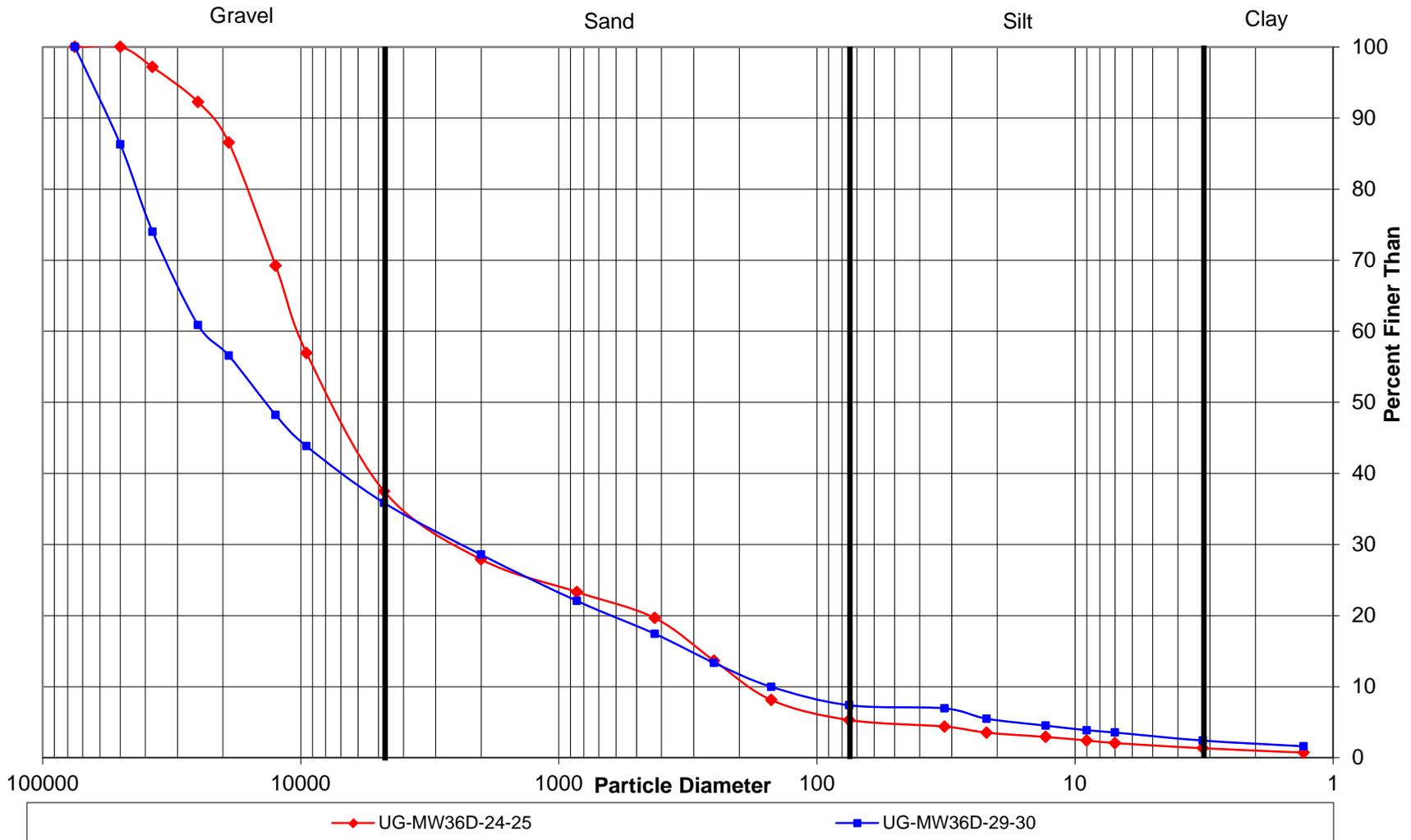


Grain Size Distribution by Hydrometer





Grain Size Distribution by Hydrometer



Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Project: VWT-RI **Client:** GeoEngineers
Project #: 17T012
Date Received: November 25, 2015 **Sampled by:** Others
Date Tested: December 11, 2015 **Tested by:** B. Goble, K. O'Connell

Soil pH - EPA 9045D

Sample #	Source	Soil pH measured in water at 25°C
T17-0308	A6-MW1D-14-15	7.34
T17-0309	A6-MW1D-20-21	7.11
T17-0310	A6-MW1D-35-36	8.16
T17-0311	A6-MW1D-44-45	7.60
T17-0312	A9-MW1D-16-17	7.59
T17-0315	A9-MW1D-33-34	8.21
T17-0316	A9-MW1D-44-45	8.24
T17-0317	A9-MW1D-64-65	8.63
T17-0318	UG-MW36D-8-9	7.78
T17-0319	UG-MW36D-10-11	7.95
T17-0320	UG-MW36D-24-25	8.20
T17-0321	UG-MW36D-29-30	7.62

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Reviewed by: _____

A handwritten signature in blue ink, appearing to read 'B. Goble', is written over a horizontal line.

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Materials Testing & Consulting, Inc.

Geotechnical Engineering • Special Inspection • Materials Testing • Environmental Consulting



Project: VWT-RI
Project #: 17T012
Date Received: February 20, 2017
Date Tested: March 6, 2017

Client: GeoEngineers
Sampled by: Others
Tested by: B. Goble, K. O'Connell

Density, Porosity, Void Ratio, % Saturation

Sample #	Wet Density, pcf	Moisture Content, %	Dry Density, pcf	Specific Gravity	Porosity	Void Ratio	Percent Saturation
A6-MW1D-14-15	124.5	6.9%	116.4	2.73	31.80	0.47	11.9%
A6-MW1D-20-21	114.9	7.4%	107.0	NA	NA	NA	NA
A6-MW1D-35-36	130.2	7.4%	121.2	NA	NA	NA	NA
A6-MW1D-44-45	132.0	7.6%	122.6	NA	NA	NA	NA
A9-MW1D-16-17	118.3	4.7%	112.9	NA	NA	NA	NA
A9-MW1D-33-34	117.6	4.7%	112.3	NA	NA	NA	NA
A9-MW1D-44-45	111.8	22.0%	91.7	2.73	46.20	0.86	69.5%
A9-MW1D-64-65	120.9	24.5%	97.1	NA	NA	NA	NA
UG-MW36D-8-9	119.4	5.9%	112.7	NA	NA	NA	NA
UG-MW36D-10-11	127.4	7.3%	118.8	2.73	30.22	0.43	9.9%
UG-MW36D-24-25	134.5	6.8%	125.9	NA	NA	NA	NA
UG-MW36D-29-30	126.2	7.3%	117.6	NA	NA	NA	NA

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Reviewed by: *B. Goble*

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14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 17, 2017

Tricia DeOme
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 0183-109-01
Laboratory Reference No. 1702-074

Dear Tricia:

Enclosed are the analytical results and associated quality control data for samples submitted on February 9, 2017.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: February 17, 2017
Samples Submitted: February 9, 2017
Laboratory Reference: 1702-074
Project: 0183-109-01

Case Narrative

Samples were collected on August 16, 18, 19 and 22, 2016 received by the laboratory on February 9, 2017. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

TOC by SM 5310B Analysis

The samples were analyzed out of holding time.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: February 17, 2017
Samples Submitted: February 9, 2017
Laboratory Reference: 1702-074
Project: 0183-109-01

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
A6-MW1D-14-15	02-074-01	Soil	8-19-16	2-9-17	
A6-MW1D-20-21	02-074-02	Soil	8-18-16	2-9-17	
A6-MW1D-35-36	02-074-03	Soil	8-19-16	2-9-17	
A6-MW1D-44-45	02-074-04	Soil	8-19-16	2-9-17	
A9-MW1D-16-17	02-074-05	Soil	8-16-16	2-9-17	
A9-MW1D-33-34	02-074-06	Soil	8-16-16	2-9-17	
A9-MW1D-44-45	02-074-07	Soil	8-16-16	2-9-17	
A9-MW1D-64-65	02-074-08	Soil	8-16-16	2-9-17	
UG-MW36D-8-9	02-074-09	Soil	8-22-16	2-9-17	
UG-MW36D-10-11	02-074-10	Soil	8-22-16	2-9-17	
UG-MW36D-24-25	02-074-11	Soil	8-22-16	2-9-17	
UG-MW36D-29-30	02-074-12	Soil	8-22-16	2-9-17	



Date of Report: February 17, 2017
 Samples Submitted: February 9, 2017
 Laboratory Reference: 1702-074
 Project: 0183-109-01

**TOTAL ORGANIC CARBON
 EPA 9060A**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A6-MW1D-14-15					
Laboratory ID:	02-074-01					
Total Organic Carbon	ND	0.044	EPA 9060	2-15-17	2-15-17	
Client ID:	A6-MW1D-20-21					
Laboratory ID:	02-074-02					
Total Organic Carbon	ND	0.046	EPA 9060	2-15-17	2-15-17	
Client ID:	A6-MW1D-35-36					
Laboratory ID:	02-074-03					
Total Organic Carbon	ND	0.045	EPA 9060	2-15-17	2-15-17	
Client ID:	A6-MW1D-44-45					
Laboratory ID:	02-074-04					
Total Organic Carbon	ND	0.044	EPA 9060	2-15-17	2-15-17	
Client ID:	A9-MW1D-16-17					
Laboratory ID:	02-074-05					
Total Organic Carbon	ND	0.041	EPA 9060	2-15-17	2-15-17	
Client ID:	A9-MW1D-33-34					
Laboratory ID:	02-074-06					
Total Organic Carbon	ND	0.042	EPA 9060	2-15-17	2-15-17	
Client ID:	A9-MW1D-44-45					
Laboratory ID:	02-074-07					
Total Organic Carbon	0.43	0.042	EPA 9060	2-15-17	2-15-17	



Date of Report: February 17, 2017
 Samples Submitted: February 9, 2017
 Laboratory Reference: 1702-074
 Project: 0183-109-01

**TOTAL ORGANIC CARBON
 EPA 9060A**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	A9-MW1D-64-65					
Laboratory ID:	02-074-08					
Total Organic Carbon	0.38	0.042	EPA 9060	2-15-17	2-15-17	
Client ID:	UG-MW36D-8-9					
Laboratory ID:	02-074-09					
Total Organic Carbon	ND	0.043	EPA 9060	2-15-17	2-15-17	
Client ID:	UG-MW36D-10-11					
Laboratory ID:	02-074-10					
Total Organic Carbon	ND	0.044	EPA 9060	2-15-17	2-15-17	
Client ID:	UG-MW36D-24-25					
Laboratory ID:	02-074-11					
Total Organic Carbon	ND	0.043	EPA 9060	2-15-17	2-15-17	
Client ID:	UG-MW36D-29-30					
Laboratory ID:	02-074-12					
Total Organic Carbon	ND	0.042	EPA 9060	2-15-17	2-15-17	



Date of Report: February 17, 2017
 Samples Submitted: February 9, 2017
 Laboratory Reference: 1702-074
 Project: 0183-109-01

**TOTAL ORGANIC CARBON
 EPA 9060A
 QUALITY CONTROL**

Matrix: Soil
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0215S1					
Total Organic Carbon	ND	0.42	EPA 9060	2-15-17	2-15-17	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	02-064-03							
	ORIG	DUP						
Total Organic Carbon	2.02	2.08	NA	NA	NA	NA	3	29

SPIKE BLANK								
Laboratory ID:	SB0215S1							
	SB	SB		SB				
Total Organic Carbon	47.3	42.1	NA	112	86-130	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





M Onsite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Turnaround Request
 (in working days)

(Check One)

- Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)

_____ (other)

Laboratory Number: **02-074**

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
TOC	

% Moisture

DB 21.7

Company: **GEI**

Project Number: **0183-109-c1**

Project Name: **WWT-P1**

Project Manager: **Tricia DeLine**

Sampled by: **PC**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Date	Time	Comments/Special Instructions
1	A6-MWID-14-15	8/11/16	1150	S	1			
2	A6-MWID-20-21	8/18/16	919	S	1			
3	A6-MWID-35-36	8/19/16	916	S	1			
4	A6-MWID-44-45	8/19/16	918	S	1			
5	A9-MWID-16-17	8/11/16	915	S	1			
6	A9-MWID-33-34	8/11/16	926	S	1			
7	A9-MWID-44-45	8/11/16	922	S	1			
8	A9-MWID-64-65	8/11/16	920	S	1			
9	A6-MWID-8-9	8/22/16	923	S	1			
10	A6-MWID-10-11	8/22/16	930	S	1			
11	A6-MWID-24-25	8/22/16	921	S	1			
12	A6-MWID-29-30	8/22/16	925	S	1			
	Relinquished							
	Received							
	Relinquished							
	Received							
	Relinquished							
	Received							
	Relinquished							

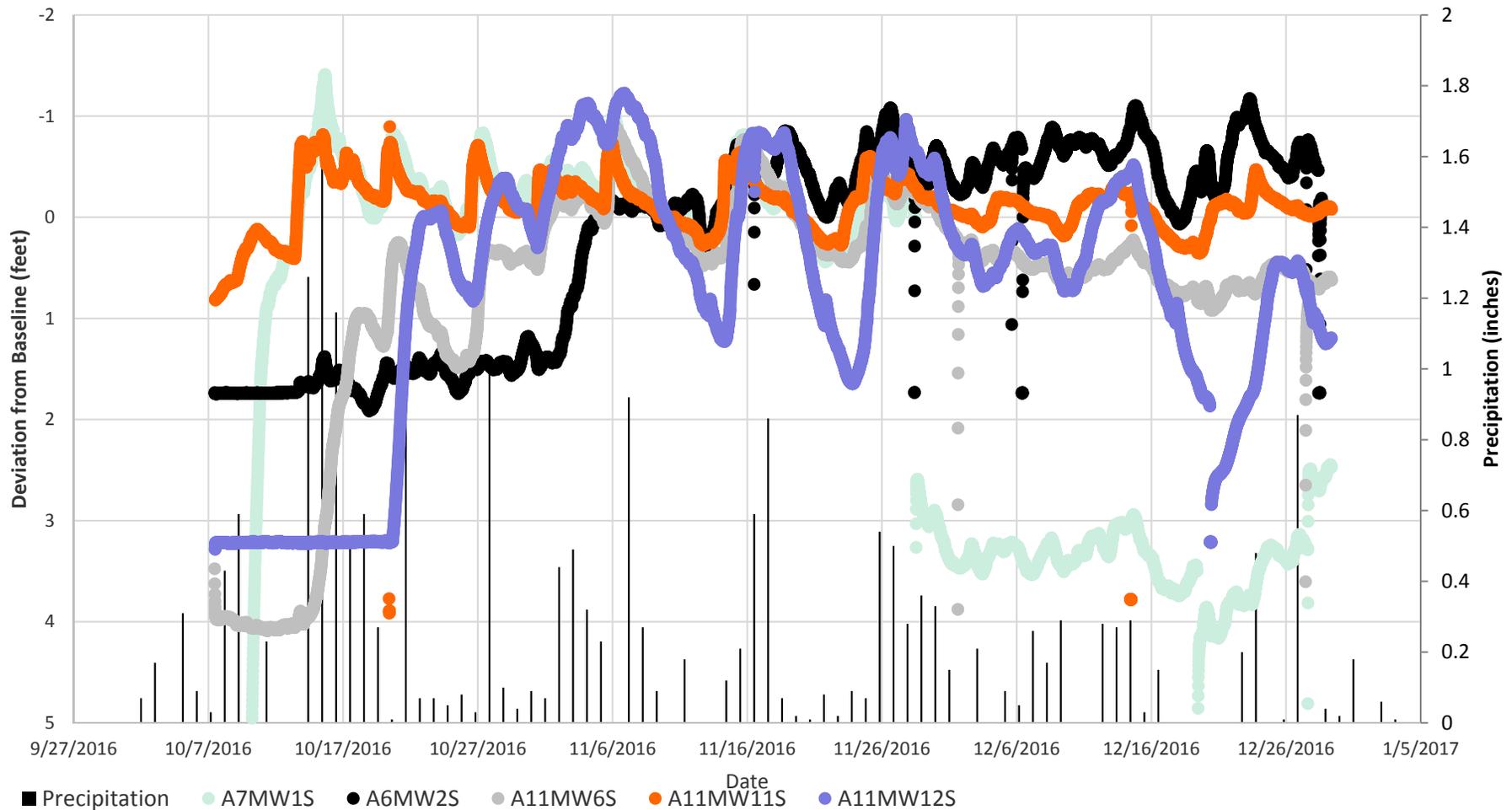
Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)

APPENDIX C

Hydrographs of Transducer Data

Deviation From Baseline Elevation and Precipitation - Shallow Wells



Positive values indicate decreasing water levels relative to baseline, negative values indicate increasing water levels relative to baseline

Notes:

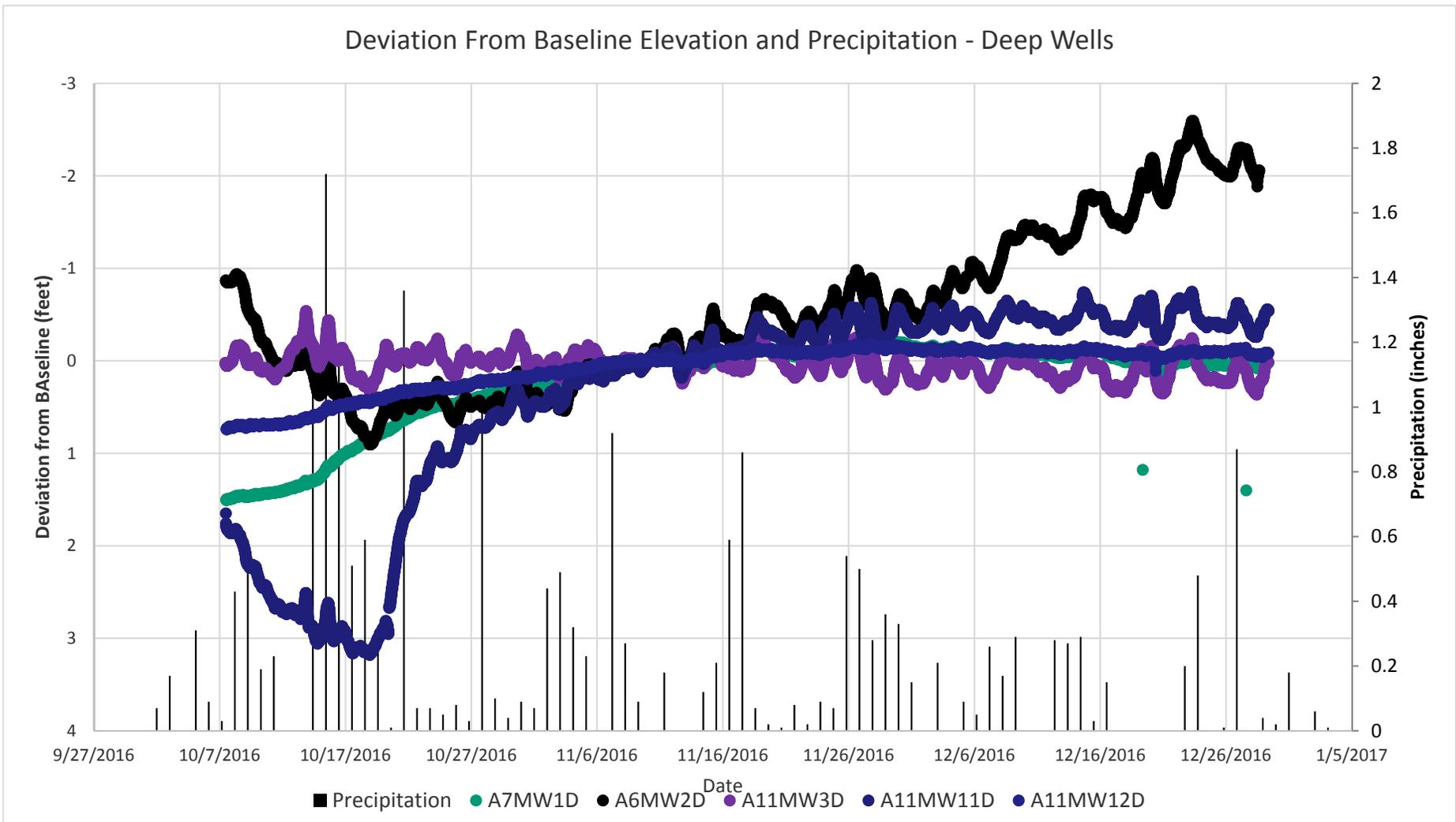
1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. This report may not be reproduced, except in full, without written approval of GeoEngineers, Inc.

Hydrographs

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 University of Washington - Tacoma
 Tacoma, Washington



Figure C-1



Positive values indicate decreasing water levels relative to baseline, negative values indicate increasing water levels relative to baseline

Notes:

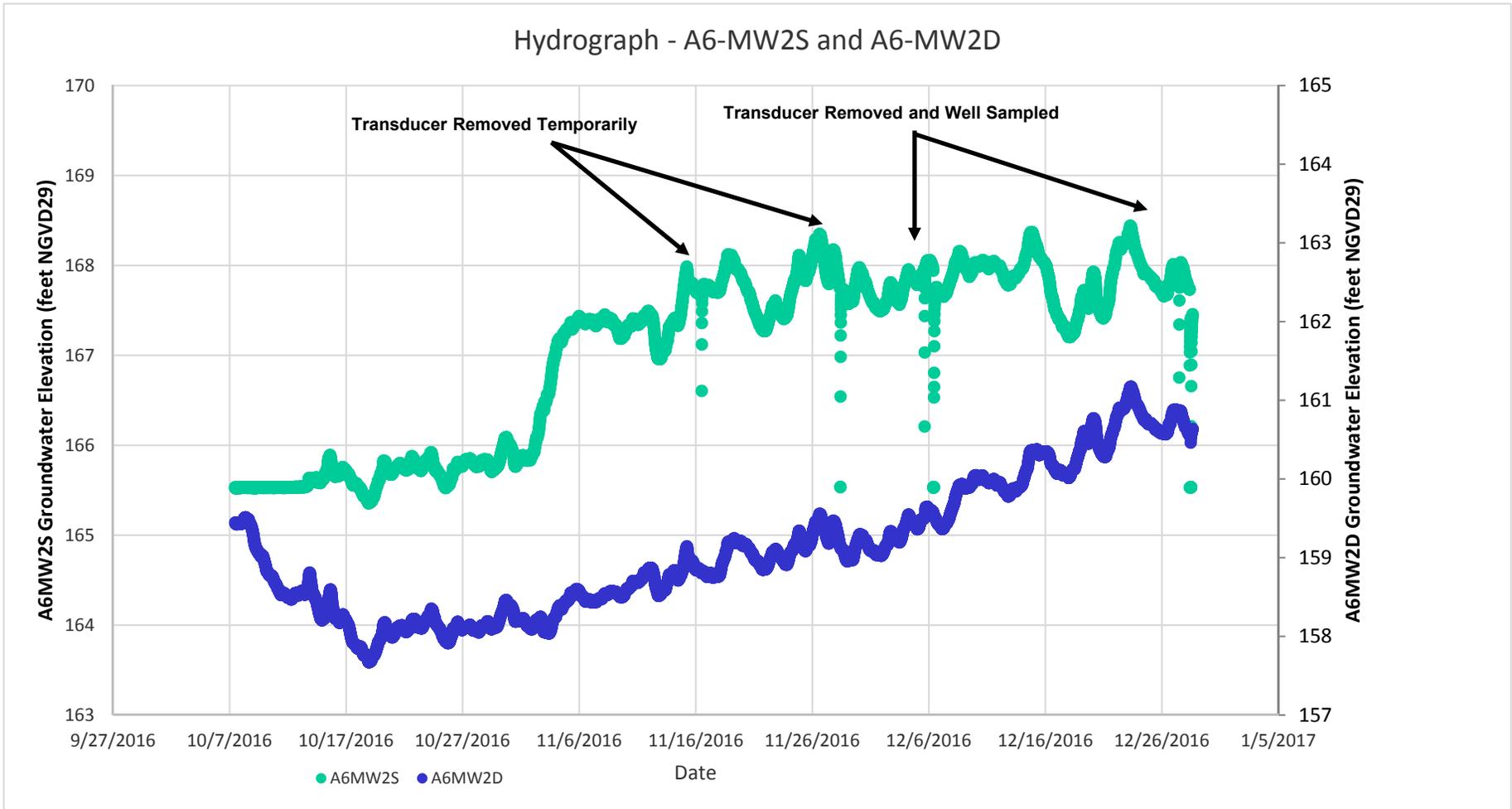
1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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Hydrographs

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 University of Washington - Tacoma
 Tacoma, Washington



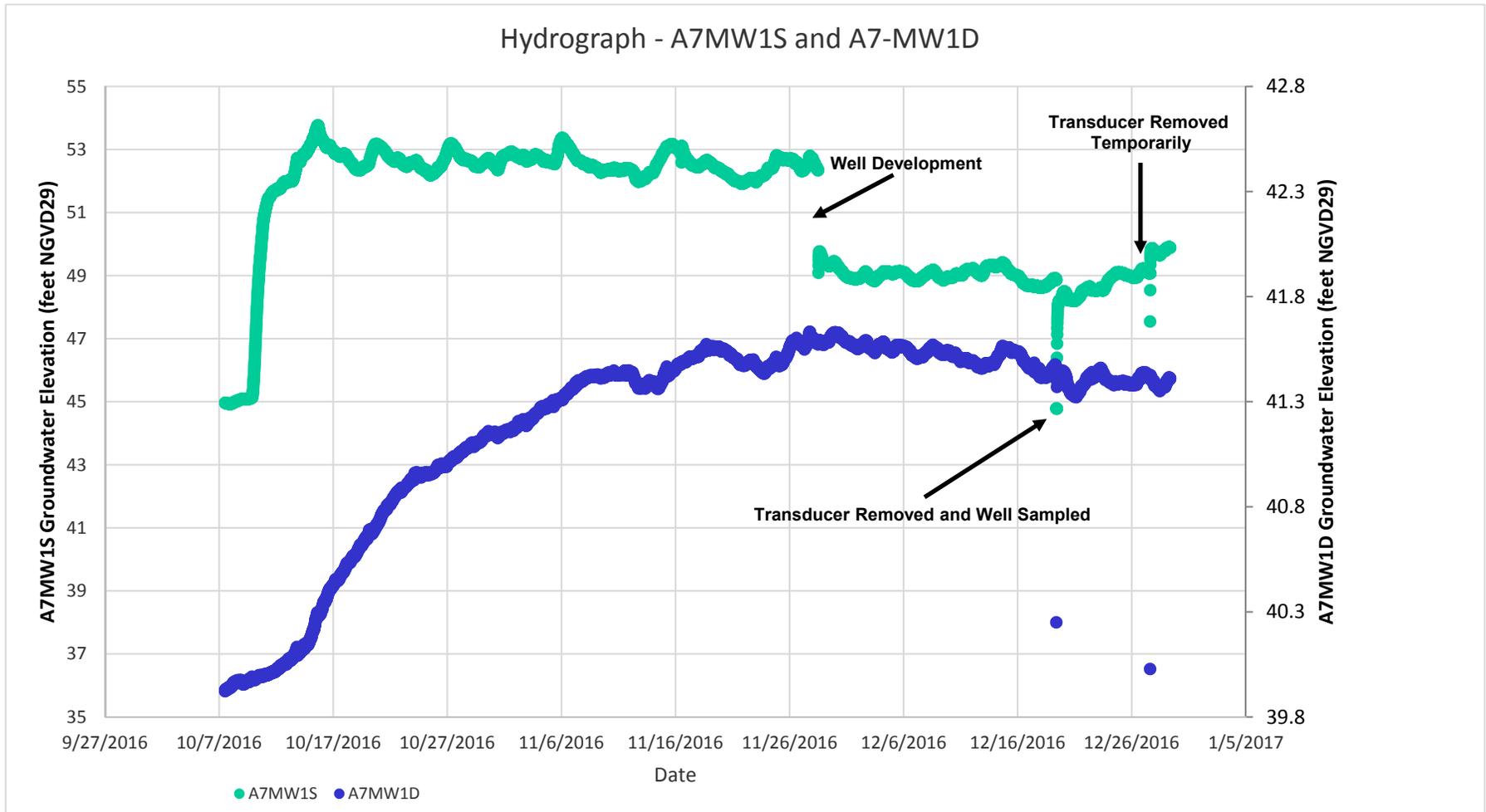
Figure C-2



Notes:

1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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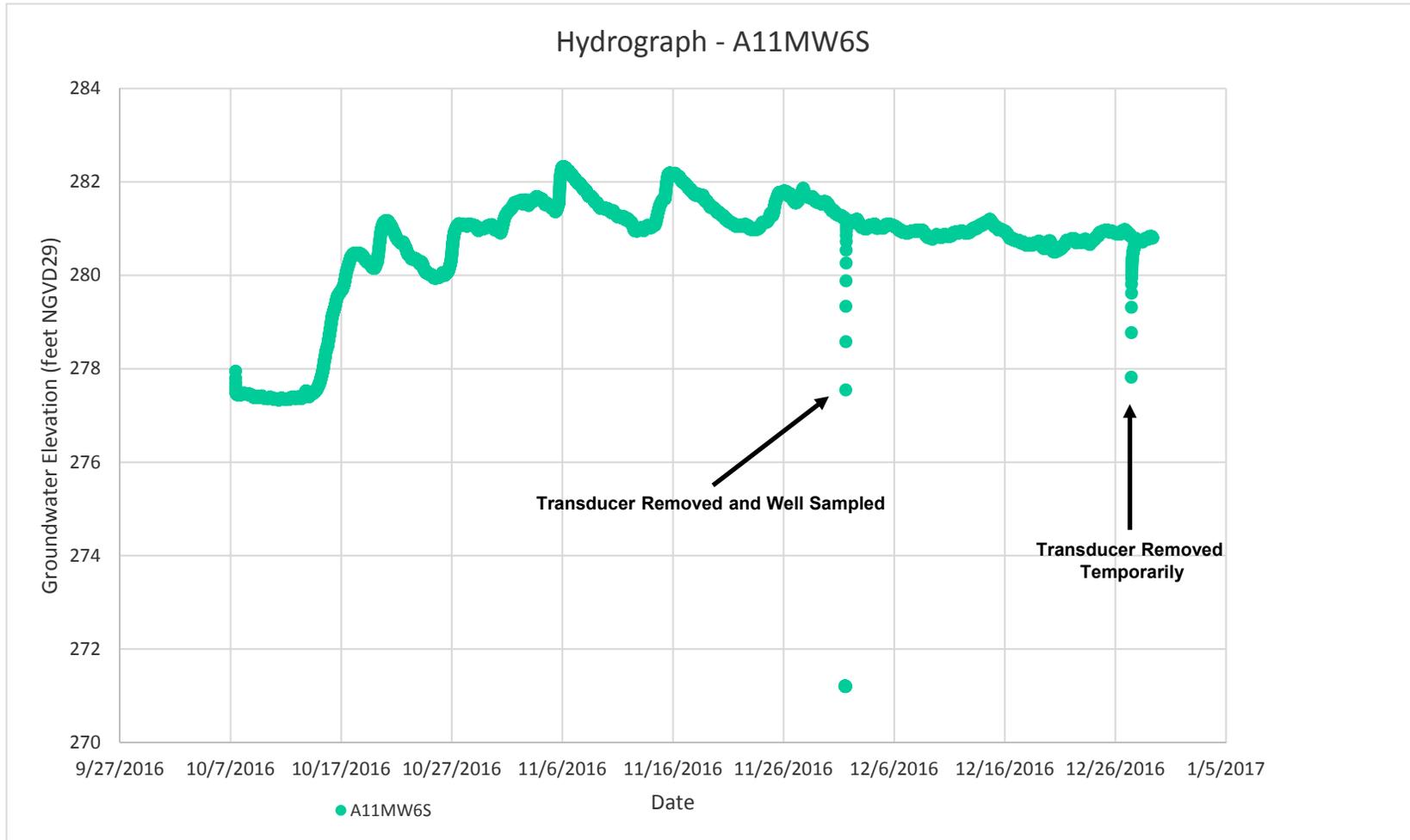
Hydrographs	
Agreed Order Remedial Investigation 2016 Data Summary Report University of Washington - Tacoma Tacoma, Washington	
	Figure C-3



Notes:

1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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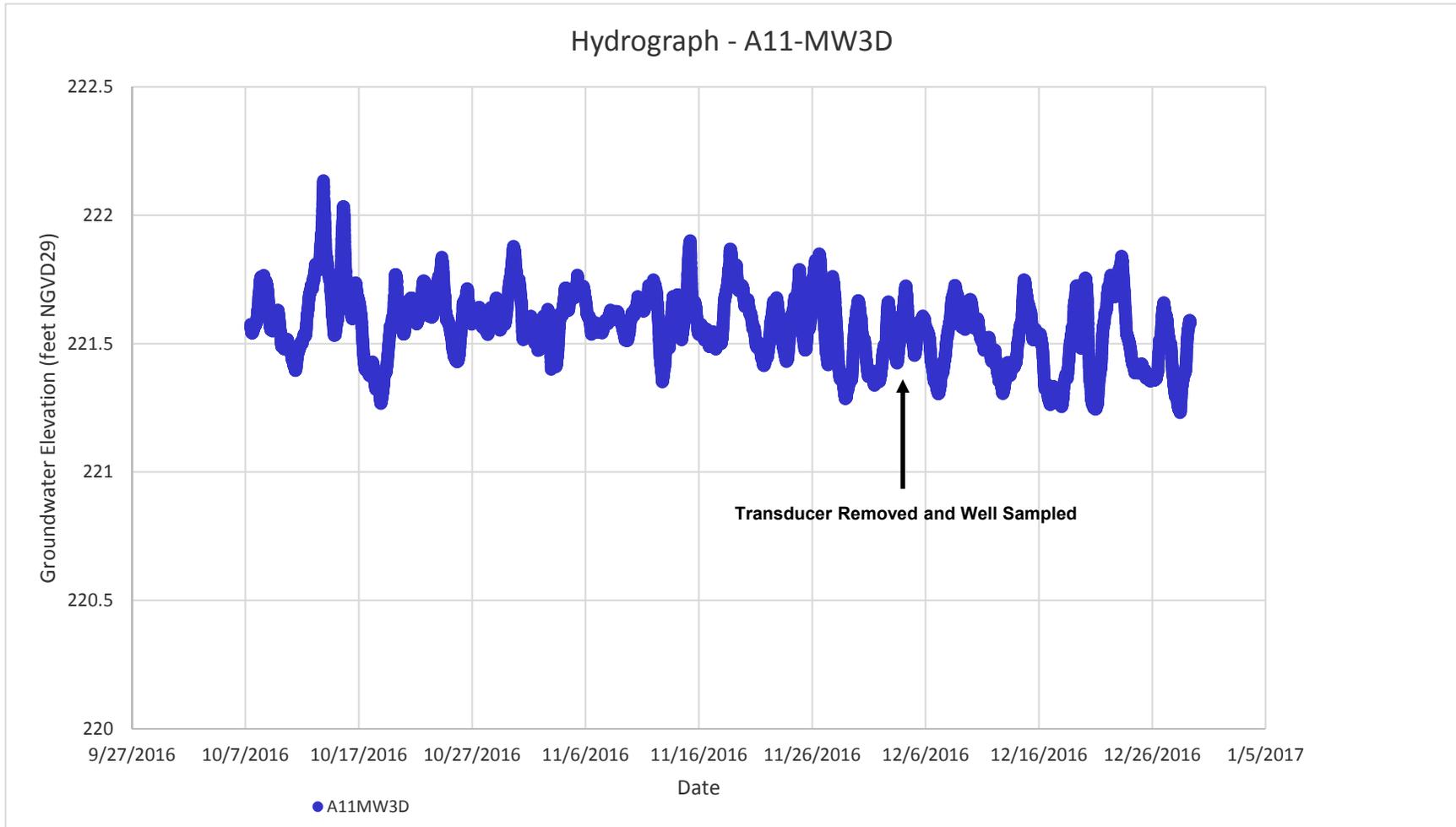
Hydrographs	
Agreed Order Remedial Investigation 2016 Data Summary Report University of Washington - Tacoma Tacoma, Washington	
	Figure C-4



Notes:

1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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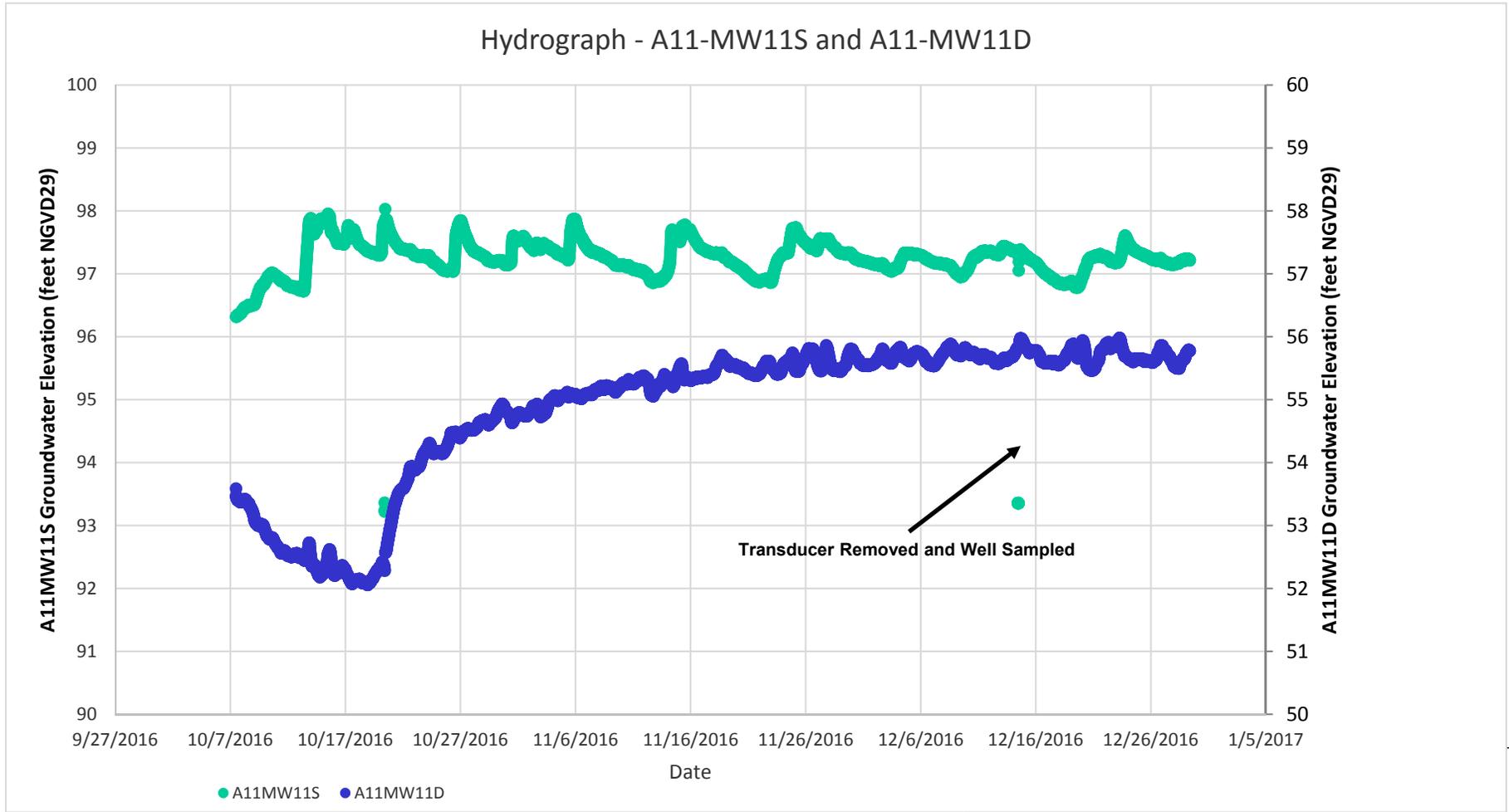
Hydrographs	
Agreed Order Remedial Investigation 2016 Data Summary Report University of Washington - Tacoma Tacoma, Washington	
	Figure C-5



Notes:

1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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Hydrographs	
Agreed Order Remedial Investigation 2016 Data Summary Report University of Washington - Tacoma Tacoma, Washington	
	Figure C-6



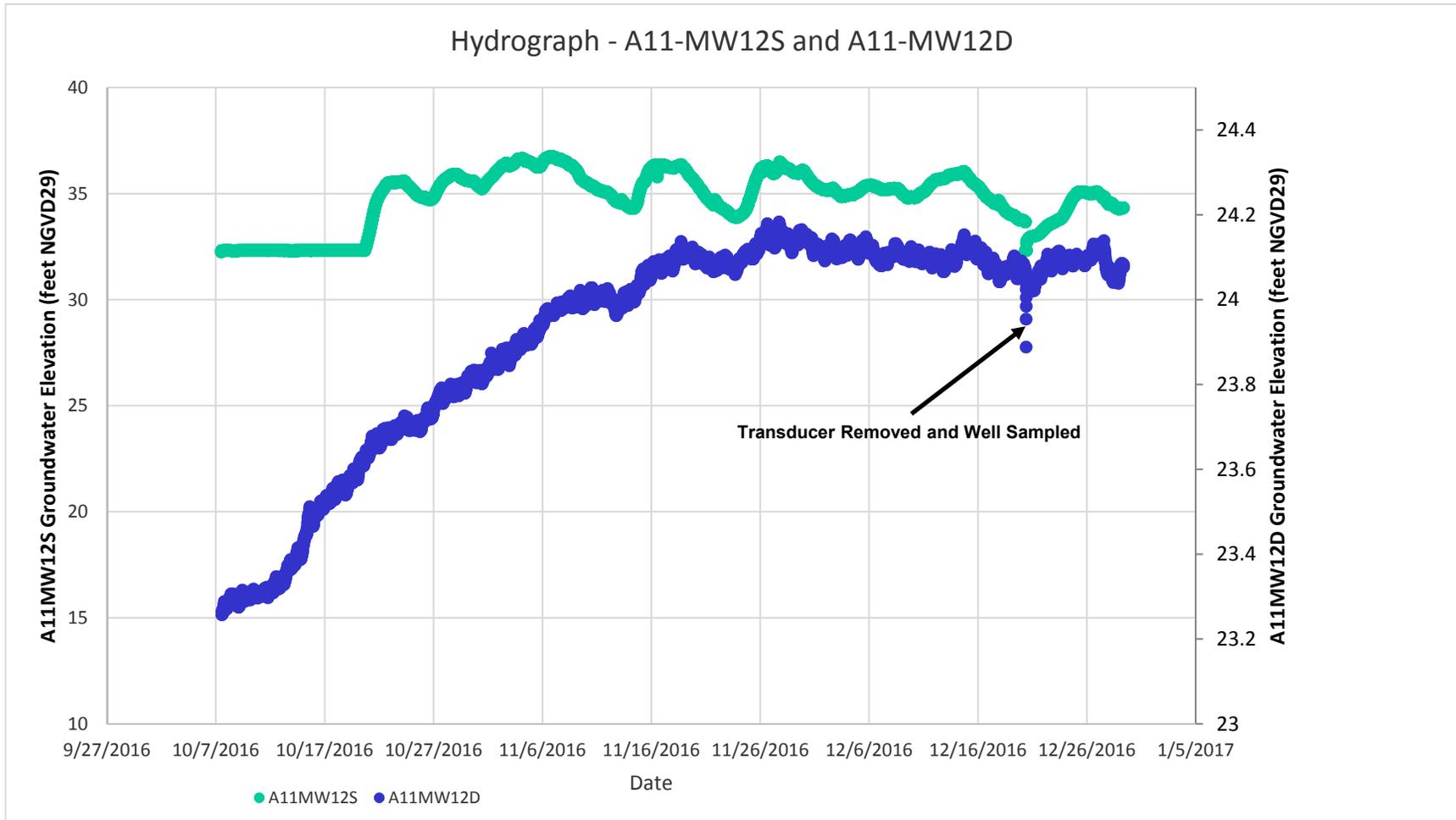
Notes:

1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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 Tacoma, Washington



Figure C-7



Transducer Removed and Well Sampled

Notes:

1. Groundwater level data obtained from transducers within the respective wells
2. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
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Hydrographs	
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	Figure C-8

APPENDIX D
Report Limitations and Guidelines for Use

APPENDIX D REPORT LIMITATIONS AND GUIDELINES FOR USE¹

This appendix provides information to help you manage your risks with respect to the use of this report. Please confer with GeoEngineers if you need to know more about how these “Report Limitations and Guidelines for Use” apply to your project or property.

Read These Provisions Closely

It is important to recognize that environmental engineering and geoscience practices (geotechnical engineering, geology and environmental science) are less exact than other engineering and natural science disciplines. GeoEngineers includes these explanatory “limitations” provisions in our reports to help reduce the risk of misunderstandings or unrealistic expectations that lead to disappointments, claims and disputes.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

GeoEngineers has performed this Agreed Order Remedial Investigation 2016 Data Summary Report in general accordance with the scope and limitations of our proposal, dated May 18, 2016. This report has been prepared for the exclusive use of University of Washington. This report is not intended for use by others, and the information contained herein is not applicable to other properties.

GeoEngineers structures its services to meet the specific needs of its clients. For example, an ESA study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and property. Use of this report is not recommended for any purpose or project other than as expressly stated in this report.

This Environmental Report is Based on a Unique Set of Project-Specific Factors

This report has been prepared for Agreed Order Remedial Investigation 2016 Data Summary Report. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this Project. Unless GeoEngineers specifically indicates otherwise, it is important not to rely on this report if it was:

- not prepared for you,
- not prepared for your Project,
- not prepared for the specific site explored, or
- completed before Project changes were made.

If changes to the Project or property occur after the date of this report, GeoEngineers cannot be responsible for any consequences of such changes in relation to this report unless we have been given the opportunity

¹ Developed based on material provided by ASFE, Professional Firms Practicing in the Geosciences; www.asfe.org.

to review our interpretations and recommendations in the context of such changes. Based on that review, we can provide written modifications or confirmation, as appropriate.

Reliance Conditions for Third Parties

This report was prepared for the exclusive use of the party(ies) to whom this report is addressed. No other party may rely on the product of our services unless we agree to such reliance in advance and in writing. Within the limitations of the agreed Project scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted environmental practices in this area at the time this report was prepared.

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in our scope of service, this report does not provide any geotechnical findings, conclusions, or recommendations, including but not limited to, the suitability of subsurface materials for construction purposes.

Do Not Separate Documentation from the Report

Environmental reports often include supplemental documentation, such as maps, figures and table. Do not separate such documentation from the report. Further, do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.

Environmental Regulations Change and Evolve

Some substances may be present in the vicinity of the subject property in quantities or under conditions that may have led, or may lead, to contamination of the subject property, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substances, change or if more stringent environmental standards are developed in the future.

Uncertainty May Remain Even After This Investigation is Completed

Performance of a subsurface investigation is intended to reduce uncertainty regarding the potential for contamination in connection with a property, but no ESA can wholly eliminate that uncertainty. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from widely spaced sampling locations. It is always possible that contamination exists in areas that were not explored, sampled or analyzed.

Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by man-made events such as construction on or adjacent to the subject property, by new releases of hazardous substances, new information or technology that become available subsequent to the report date, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. Please contact GeoEngineers before applying this report for its intended purpose so that GeoEngineers may evaluate whether changed conditions affect the continued applicability of the report.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other properties or for other on-site uses of the affected soil and/or groundwater. Note that hazardous substances may be present in some of the on-site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject property or reuse of the affected soil or groundwater on-site to evaluate the potential for associated environmental liabilities. GeoEngineers will not assume responsibility for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject property to another location, or the reuse of such soil and/or groundwater on-site in any instances that we did not recommend, know of, or control.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the subject property. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied its professional judgment to render an informed opinion about subsurface conditions throughout the property. Actual subsurface conditions may differ significantly from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Do Not Redraw the Exploration Logs

Environmental scientists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in an environmental report should never be redrawn for inclusion in other design documents. Only photographic or electronic reproduction that preserves the entire original boring log is acceptable, but separating logs from the report can create increase the risk of potential misinterpretation.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants, and no conclusions or inferences should be drawn regarding Biological Pollutants as they may relate to this Project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria and viruses, and/or any of their byproducts.

A Client that desires these specialized services is advised to obtain them from a consultant who offers services in this specialized field.