



Washington State
Department of Transportation

SR 520 Bridge Replacement and HOV Program



Third Supplemental Limited Phase II Environmental Site Assessment 2625 East Montlake Place East Seattle, Washington

Prepared for

**Washington State Department of Transportation
SR520 Bridge Replacement and HOV Program
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Seattle, WA 98104**

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January 16, 2019

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INNOVEX has performed a Phase II Environmental Site Assessment of 2625 East Montlake Place East Seattle, Washington in conformance with the scope and limitations of ASTM Practice E 1903-11 and for the following objectives:

This Third Supplemental Phase II Environmental Site Assessment (ESA) was conducted to better define the extent of contamination encountered during the initial Phase II ESA, and to identify additional contaminated areas present at 2625 East Montlake Place East.

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Colin Duffy,
Senior Scientist

January 16, 2019

Date

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Acronyms and Abbreviations

bgs	below ground surface
CLARC	Cleanup Levels and Risk Calculation
COPC	contaminant of potential concern
CSM	conceptual site model
CUL	Cleanup Level
Ecology	Washington State Department of Ecology
EM	electromagnetic
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
GPR	ground penetrating radar
INNOVEX	INNOVEX Environmental Management, Inc.
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
mg/kg	milligrams per kilogram
MS	matrix spike
MSD	matrix spike duplicate
MTCA	Model Toxics Control Act
OnSite	OnSite Environmental Inc.
PCB	polychlorinated biphenyl
PID	photoionization detector
ppm	parts per million
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
ROWs	right-of-ways
RPD	relative percent difference
SDCI	Seattle Department of Construction and Inspections
SPU	Seattle Public Utilities
SR	State Route
SAP	Sampling and Analysis Plan
SDOT	Seattle Department of Transportation
SPT	standard penetration test
SVOC	semivolatile organic compound
ug/L	micrograms per liter
UST	underground storage tank
VOC	volatile organic compound
WABN	West Approach Bridge North
WAC	Washington Administrative Code
WSDOT	Washington State Department of Transportation

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1.0 INTRODUCTION

1.1 Authorization

INNOVEX Environmental Management, Inc. (INNOVEX) has completed this Third Supplemental Phase II Environmental Site Assessment (ESA) of 2625 East Montlake Place East, Seattle, Washington. This work builds on previous investigations conducted in the public right of way near the property between 2016 and 2018. This fieldwork on the property was possible once access was authorized in December 2018. The project was completed in support of the Washington State Department of Transportation (WSDOT) State Route (SR) 520 Bridge Replacement and HOV Program.

Field activities were conducted in accordance with the Supplemental Sampling and Analysis Plan (SAP) prepared for this project (INNOVEX, 2017). Any deviations from the Supplemental SAP are summarized below in Section 3.9.

1.2 Objective

This Third Supplemental Phase II ESA was conducted to further define the extent of contamination encountered during the initial Phase II ESA (INNOVEX, 2016), and to determine if additional contaminated areas are present on the 2625 East Montlake Place East property. The property has been used as a gas station for approximately 90 years.

The scope of work for this Third Supplemental Phase II ESA included the following work tasks:

- Six soil borings were advanced to between 20 and 25 feet below ground surface (bgs) to collect soil and groundwater samples for chemical analysis.
- Soil samples were collected and analyzed to determine if petroleum and related contamination is present in the soil beneath the site.
- At least one soil sample from each boring was selected and submitted and analyzed for site contaminants of potential concern (COPCs). Three soil samples were selected from borings H-16-18 and H-19-18 and analyzed based on field observations.
- Groundwater samples were collected from each of the six borings and analyzed for the COPCs.

The results of this Third Supplemental Phase II ESA will be used to assist WSDOT in management of potential environmental risks during property acquisition and subsequent reconstruction of the SR520 Eastbound on and off ramps and East Montlake Place East.

2.0 SITE BACKGROUND

The areas investigated for the previous Phase II ESA, and two Supplemental Phase II ESA investigations are the City of Seattle and WSDOT SR520 right-of-ways (ROWS) in the vicinity of 2625 East Montlake Place East, Seattle, Washington. The investigations took place in the northeast quarter of Township 25 North, Range 4 East and Section 21.

Between 2016 and spring 2018, three Phase II ESA investigations included the advancement of 15 soil borings, which were located around the perimeters of the gas station property (Figure 2). Additional details regarding the previous investigations can be found in the References section (6.0). Soil and groundwater sample exceedances are summarized below. Refer to the Phase II ESA (INNOVEX, 2016), Supplemental Phase II ESA (INNOVEX, 2018a), and Second Supplemental Phase II ESA (INNOVEX, 2018b) for a complete discussion of the investigation methods and analytical results.

- Gasoline-range hydrocarbons were detected above Model Toxics Control Act (MTCA) Cleanup Levels (CULs) in three soil samples from boring H-4-16.
- Volatile organic compounds (VOCs) including benzene, ethylbenzene, total xylenes, naphthalene, and methylene chloride were detected above applicable MTCA CULs in soil samples from borings H-2-16, H-3-16, H-4-16, H-5-16, and H-7-17.
- Copper and nickel were detected in soil samples concentrations above applicable MTCA CULs in borings H-2-16 and H-5-16, and nickel was detected at concentrations above the applicable MTCA CUL in borings H-1-16, H-3-16, and H-4-16. Barium was detected at a concentration above the applicable MTCA CUL in boring H-14-18.
- VOCs including benzene and chloroform were detected in the groundwater sample from boring H-3-16 in concentrations greater than the applicable MTCA CULs.
- Dissolved antimony and arsenic were detected in the groundwater sample from boring H-3-16 in concentrations greater than applicable MTCA CULs.
- Total arsenic, barium, and lead were detected in the groundwater samples from borings H-11-18, H-14-18, and H-15-18 in concentrations greater than applicable MTCA CULs.

3.0 PHASE II ESA ACTIVITIES

3.1 Scope of Assessment

A project SAP was developed (INNOVEX, 2017) to better define the extent of contamination encountered during the initial Phase II ESA (INNOVEX, 2016), and to identify additional contaminated areas present on the 2625 East Montlake Place East property. A total of six soil borings were drilled to between 20 and 25 feet bgs. Borings were terminated at a depth of 5 feet below groundwater. Ten subsurface soil samples and six groundwater samples were collected and submitted to OnSite Environmental Inc. (OnSite) in Redmond, Washington for chemical analysis. The rationale and results for this Third Supplemental Phase II ESA are summarized below.

3.2 Conceptual Site Model

In order to provide a framework for evaluating data gaps and subsequent analytical data, a conceptual site model (CSM) illustrating potential sources of chemicals, release mechanisms, means of retention in or migration to exposure media, exposure routes, and receptors was developed for the property during the initial Phase II ESA (INNOVEX, 2016). The CSM is largely unchanged from the initial Phase II ESA and describes, in a generalized way, the interactions of potential contaminants, mechanisms of contaminant migration, and possible routes of human and ecological exposure under site conditions.

Based on background information presented in the previous Phase II ESA investigations, the COPCs identified for the site are:

- Gasoline-range hydrocarbons
- Diesel-range petroleum hydrocarbons
- Oil-range petroleum hydrocarbons
- Polychlorinated biphenyls (PCBs)
- VOCs
- SVOCs
- Resource Conservation and Recovery Act (RCRA) 8 Metals

3.3 Utility Locations

INNOVEX coordinated the utility locates using a private locating service, Underground Detection, and through One Call Concepts, ticket # 18508208. Boring locations were adjusted in the field to avoid buried utilities. Buried utilities identified on the property included possible product lines, electric lines, gas lines, and drain lines. For safety purposes and in order to protect potentially unidentified subsurface utilities, Holocene Drilling advanced through the first five feet of each boring using an air knife and a vacuum truck.

3.4 GPR Survey

A ground penetrating radar (GPR) survey was conducted by Underground Detection at each boring location. In addition, an electromagnetic (EM) survey was conducted in the parking area on the western portion of the property with the intent of evaluating anomalies with the GPR. No anomalies were detected. The results of the EM survey are shown as Appendix C.

3.5 Permits and Noise Control

WSDOT obtained a temporary noise variance from the Seattle Department of Construction and Inspections (SDCI) to allow the drilling to be conducted at night to reduce the impacts to traffic and local businesses.

3.6 Drilling Activities

Fieldwork was conducted from December 3-7, 2018. Six soil borings were advanced by Holocene Drilling using a sonic drill rig to characterize the extent of petroleum contamination identified in the initial Phase II ESA report. Each boring was drilled with clean, decontaminated equipment.

Drilling equipment was decontaminated at the WSDOT West Approach Bridge North (WABN) Laydown Yard on Lake Washington Boulevard at the start of drilling and after each night's work.

3.7 Soil and Groundwater Sampling

A total of 29 soil samples were collected from the soil borings at approximate five-foot intervals using an 18-inch standard penetration test (SPT) split spoon sampler advanced in front of the sonic drill head. An aliquot of soil recovered from each drilling interval was placed in a Ziploc bag and allowed to volatilize for approximately 15 minutes. The aliquot was collected from the SPT sampler. The headspace within the Ziploc bag was evaluated for organic vapors using a photo-ionization detector (PID). The soil sample from the depth with the highest PID reading was selected for chemical analysis. In the two borings with elevated PID readings (H-16-18 and H-19-18), samples from the top and bottom of the interval with elevated PID readings were also analyzed.

Groundwater was encountered in each of the borings between 15 and 20 feet bgs. A PVC screen was temporarily installed in each boring to allow for groundwater sample collection. Samples were collected immediately upon drilling completion to finish the work within the court ordered property access time frame. Samples for dissolved metals analysis were filtered by the laboratory. Groundwater samples were collected from each boring using either a decontaminated submersible pump, a peristaltic pump using disposable tubing, or disposal bailers. The submersible pump was decontaminated between borings using Alconox soap and a deionized water rinse. Decontamination and rinse water was handled as described in Section 3.11.

Soil samples were collected from each boring as summarized below:

- Boring H-16-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 478 parts per millions (ppm) at 15 feet. This soil sample was selected for chemical analysis.

The interval with elevated PID readings extended from 10 feet (36.8 ppm) to the bottom of the boring at 25 feet (38.5 ppm). These two samples were also selected for chemical analysis.

- Boring H-17-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 16.4 ppm at 10 feet. This soil sample was selected for chemical analysis.
- Boring H-18-18 was advanced to 25 feet bgs. No elevated PID readings (>0.0 ppm) were observed for soil samples collected from this boring. Groundwater was observed at a depth of approximately 20 to 25 feet at this location. The soil sample collected at 25 feet represented the approximate soil/groundwater interface and was selected for chemical analysis.
- Boring H-19-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 1,608 ppm at 15 feet. This soil sample was selected for chemical analysis. The interval with elevated PID readings extended from 5 feet (887 ppm) to the bottom of the boring at 25 feet (264 ppm). These two samples were also selected from chemical analysis.
- Boring H-20-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 12 ppm at 10 feet. This soil sample was selected for chemical analysis.
- Boring H-21-18 was advanced to 20 feet bgs. No elevated PID readings (>0.0 ppm) were observed in soil samples collected from this boring. Groundwater was observed at a depth of approximately 15 to 20 feet at this location. The soil sample collected at 20 feet represented the approximate soil/groundwater interface and was selected for chemical analysis. One field duplicate was collected from this location.

The boring logs are included as Appendix A.

3.8 Analytical Methods

The COPCs identified for the site include petroleum hydrocarbon related constituents. Soil and groundwater samples were analyzed to determine the concentrations of these COPCs using the following methods:

- Gasoline-range hydrocarbons – Washington State Method NWTPH-Gx
- Diesel-range petroleum hydrocarbons – Washington State Method NWTPH-Dx
- Oil-range petroleum hydrocarbons – Washington State Method NWTPH-Dx
- PCBs – U.S Environmental Protection Agency (EPA) Method 8082
- VOCs – EPA Method 8260
- SVOCs – EPA Method 8270
- RCRA Metals – EPA Method 6010 / 7470

Naphthalene is analyzed in soil and groundwater using both EPA Methods 8260 and 8270 and thus yield differing results. Results for both analyses are presented in this report but only the higher of the two results are used for evaluation.

Limited groundwater volume was available for sample collection in boring H-20-18 and the sample was not analyzed for PCBs. One field duplicate was collected from boring H-21-18 and was analyzed for gasoline range hydrocarbons and VOCs only.

3.9 Site Cleanup Levels

The CULs for the project were identified using the MTCA regulation (Washington Administrative Code [WAC] 173-340). MTCA cleanup levels are tabulated in Ecology's Cleanup Levels and Risk Calculation (CLARC) table available at:

<https://fortress.wa.gov/ecy/clarc/FocusSheets/CLARC%20Master%20Spreadsheet.xlsx>.

The complete discussion of the project CULs can be found in the Phase II ESA report (INNOVEX, 2016).

Soil CULs protective of groundwater were selected because of the 10 to 12-foot depth to groundwater reported in the three WSDOT piezometers discussed in the Site Geology and Hydrogeology section in the initial Phase II ESA (INNOVEX, 2016).

Groundwater CULs for the site were also identified using MTCA WAC 173-340. MTCA Method A CULs were applied and MTCA Method B CULs were applied when Method A CULs were not available. MTCA regulates groundwater quality based on total analyte concentrations. Dissolved metals concentrations are not used for establishing compliance with MTCA CULs.

3.10 Soil Analytical Results

Analytical results for soil samples are summarized in Tables 1-5 and those analytes which exceed the applicable MTCA CUL are shown on Figure 3. The analytical reports are included in Appendix B.

Gasoline range hydrocarbons were detected at concentrations exceeding the applicable MTCA CUL of 30 milligrams per kilogram (mg/kg) in four of the ten soil samples (Table 1). Exceedances were identified in borings H-16-18, H-17-18, and H-19-18 at concentrations between 130 mg/kg to 5,600 mg/kg. Oil range hydrocarbons were detected in concentrations exceeding the applicable MTCA CUL of 2,000 mg/kg in one sample (H-19-18-5) with a concentration of 6,000 mg/kg (Table 1).

Several VOCs were detected in soil samples at concentrations exceeding the applicable MTCA CULs (Table 2) as summarized below.

- Benzene concentrations exceeded the applicable MTCA CUL of 0.00174 mg/kg in eight of the ten soil samples. Exceedances were identified in borings H-16-18, H-17-18, H-19-18, and H-20-18, and ranged from 0.0050 mg/kg to 1.4 mg/kg.
- Toluene concentrations exceeded the applicable MTCA CUL of 0.273 mg/kg in one of the ten soil samples. The exceedance was identified in boring H-19-18 at a concentration of 7.3 mg/kg.
- Ethylbenzene concentrations exceeded the applicable MTCA CUL of 0.343 mg/kg in five of the ten soil samples. Exceedances were identified in borings H-16-18 and H-19-18, and ranged from 0.91 mg/kg to 17 mg/kg.

- Total xylenes concentrations exceeded the applicable MTCA CUL of 0.831 mg/kg in four of the ten soil samples. Exceedances were identified in borings H-16-18 and H-19-18, and ranged from 2.34 mg/kg to 80 mg/kg.
- Naphthalene concentrations exceeded the applicable MTCA CUL of 0.236 mg/kg in five of the ten soil samples. Exceedances were identified in borings H-16-18, H-17-18, and H-19-18, and ranged from 0.32 mg/kg to 11 mg/kg.

SVOCs were detected in seven of the ten soil samples (Table 3). Only naphthalene was detected at concentrations exceeding the applicable MTCA CUL of 0.236 mg/kg. Exceedances were identified in borings H-16-18 and H-19-18, and ranged from 0.41 mg/kg to 6.7 mg/kg.

PCBs were not detected in any of the soil samples analyzed (Table 4).

Barium and chromium were detected in each of the soil samples analyzed (Table 5). Lead was detected in four of the ten samples analyzed. Only barium was detected in concentrations exceeding the applicable MTCA CUL of 82.6 mg/kg. Exceedances were found in samples from borings H-16-18, H-17-18, H-19-18, and H-20-18 and ranged from 92 mg/kg to 200 mg/kg.

3.11 Groundwater Analytical Results

Analytical results for groundwater samples are summarized in Tables 6-10. Analyte concentrations that exceeded the applicable MTCA CUL are shown on Figure 4. The analytical reports are included in Appendix B.

Gasoline range hydrocarbons were detected in the groundwater samples at concentrations exceeding the applicable MTCA CUL of 800 micrograms per liter (ug/L) from five of the six borings (Table 6). Exceedances were identified in borings H-16-18, H-17-18, H-18-18, H-19-18, and H-21-18, and ranged from 1,300 ug/L to 110,000 ug/L.

Diesel range hydrocarbons were detected at concentrations exceeding the applicable MTCA CUL of 500 ug/L in the groundwater sample from boring H-20-18 at a concentration of 690 ug/L (Table 6).

VOCs were detected in the groundwater samples from each of the six borings (Table 7). Several VOCs were detected at concentrations exceeding the applicable MTCA CULs as summarized below.

- Benzene concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from each of the six borings, and ranged from 28 ug/L to 5,300 ug/L.
- The 1,2-dichloroethane concentration exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater sample from boring H-20-18 at a concentration of 19 ug/L.
- The toluene concentration exceeded the applicable MTCA CUL of 1,000 ug/L in the groundwater sample from boring H-19-18 at a concentration of 2,000 ug/L.
- Ethylbenzene concentrations exceeded the applicable MTCA CUL of 700 ug/L in the groundwater samples from borings H-16-18 and H-19-18. The exceeding concentrations were 4,600 ug/L and 2,200 ug/L, respectively.

- Total xylene concentrations exceeded the applicable MTCA CUL of 1,000 ug/L in the groundwater samples from three of the six borings. Exceedances were identified in borings H-16-18, H-17-18, and H-19-18, and ranged from 1,710 ug/L to 18,600 ug/L.
- The N-propylbenzene concentration exceeded the applicable MTCA CUL of 800 ug/L in the groundwater sample from boring H-19-18 at a concentration of 830 ug/L.
- 1,3,5-trimethylbenzene concentrations exceeded the applicable MTCA CUL of 80 ug/L in the groundwater samples from three of the six borings. Exceedances were identified in borings H-16-18, H-17-18, and H-19-18, and ranged from 100 ug/L to 2,100 ug/L.
- The N-butylbenzene concentration exceeded the applicable MTCA CUL of 400 ug/L in the groundwater sample from boring H-19-18 at a concentration of 520 ug/L.
- The naphthalene concentration exceeded the applicable MTCA CUL of 160 ug/L in the groundwater sample from boring H-16-18 at a concentration of 970 ug/L.

SVOCs were detected in the groundwater samples in each of the six borings (Table 8). Several SVOCs were detected at concentrations exceeding the applicable MTCA CULs as summarized below.

- Naphthalene concentrations exceeded the applicable MTCA CUL of 160 ug/L in the groundwater samples from borings H-16-18 and H-19-18. The exceeding concentrations were 570 ug/L and 280 ug/L, respectively.
- 2-methylnaphthalene concentrations exceeded the applicable MTCA CUL of 32 ug/L in the groundwater samples from borings H-16-18 and H-19-18. The exceeding concentrations were 150 ug/L and 48 ug/L, respectively.
- 1-methylnaphthalene concentrations exceeded the applicable MTCA CUL of 1.51 ug/L in the groundwater samples from each of the six borings, and ranged from 1.8 ug/L to 72 ug/L.

Total metals were detected in the groundwater samples from each of the six borings (Table 10). Several metals were detected at concentrations exceeding the applicable MTCA CULs as summarized below.

- Total arsenic concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from each of the six borings, and ranged from 52 ug/L to 580 ug/L.
- Total barium concentrations exceeded the applicable MTCA CUL of 3,200 ug/L in the groundwater samples from four of the six borings. Exceedances were identified in borings H-17-18, H-18-18, H-19-18, and H-20-18 and ranged from 3,600 ug/L to 11,000 ug/L.
- Total cadmium concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from four of the six borings. Exceedances were identified in borings H-17-18, H-18-18, H-19-18, and H-20-18 and ranged from 5.9 ug/L to 12 ug/L.
- Total chromium concentrations exceeded the applicable MTCA CUL of 48 ug/L in the groundwater samples from each of the six borings, and ranged from 420 ug/L to 4,800 ug/L.
- Total lead concentrations exceeded the applicable MTCA CUL of 15 ug/L in the groundwater samples from each of the six borings, and ranged from 34 ug/L to 800 ug/L.

- The total mercury concentration exceeded the applicable MTCA CUL of 2.0 ug/L in the groundwater sample from boring H-17-18 at a concentration of 2.2 ug/L.
- PCBs were not detected in the groundwater samples in any of the borings (Table 9). Note that H-20-18 was not analyzed for PCBs as mentioned in Section 3.7.

Dissolved arsenic and dissolved barium were detected in the groundwater samples in four of the six borings and dissolved lead was detected in the groundwater samples from two of the six borings. Only dissolved arsenic was detected in concentrations exceeding the applicable MTCA CUL. Dissolved arsenic concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from three of the six borings. Exceedances were identified in borings H-16-18, H-17-18, and H-20-18, and ranged from 12 ug/L to 32 ug/L.

Groundwater in the temporary PVC screens was not allowed to stabilize due to time constraints, and the samples collected for dissolved metals analysis were filtered by the laboratory. The dissolved metals results may be more representative of groundwater conditions at the Site.

3.12 Data Quality

Data reports from OnSite were reviewed by INNOVEX. Laboratory provided data quality parameters were reviewed. Data qualifiers were applied as necessary. Data for gasoline-range hydrocarbons, diesel and lube-oil range hydrocarbons, VOCs, SVOC's, PCBs, and RCRA metals were determined by INNOVEX to be qualified and acceptable for all purposes following evaluation of the quality control specifications presented in the SAP; or equivalent requirements found in the contracted commercial laboratory analytical methods. Precision, accuracy, representativeness, comparability, and completeness parameters were evaluated for each method. In addition to laboratory control samples, the data were also reviewed for trip temperature and holding time requirements.

OnSite followed the most recent versions of the specified analytical methods. Precision was acceptable as demonstrated by the reported matrix spike/matrix spike duplicate (MS/MSD) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) values. Accuracy was also acceptable, as demonstrated by the reported surrogate, MS/MSD, and LCS/LCD percent recovery values. Samples were collected and field activities were conducted in accordance with the SAP.

One field duplicate sample was collected for both soil and groundwater. Field duplicate samples assess variability due to sampling technique and instrument performance as well as variability possibly caused by the heterogeneity of the matrix being sampled.

3.13 Disposal of Investigation Derived Waste

Investigation derived waste, including soil cuttings and decontamination water, were containerized by the drilling crew and taken to the WSDOT WABN Laydown Yard on Lake Washington Boulevard, Seattle for temporary storage pending sample analytical results. Laboratory reports were provided to WSDOT to coordinate disposal.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the 2016 Phase II ESA (INNOVEX, 2016), the 2017 Supplemental Phase II ESA (INNOVEX, 2018a), the 2018 Second Supplemental Phase II ESA (INNOVEX, 2018b) and the findings presented above, we offer the following conclusions and recommendations for the investigation area. Twenty one soil borings were advanced and one or more soil samples from each boring was analyzed for gasoline, diesel, and lube oil-range hydrocarbons, VOCs, SVOCs, PCBs, and RCRA or priority pollutant metals. Groundwater samples were collected from ten of the borings. The MTCA CUL exceedances for the soil samples are presented on Figure 3. The MTCA CUL exceedances for the groundwater samples are shown on Figure 4.

The findings of the 2018 Third Supplemental Phase II ESA are summarized as follows:

- The EM survey conducted at the Site did not identify any unknown underground storage tanks (USTs) or any other anomalies in the parking area on the western portion of the property (Appendix C).
- Soil and groundwater sampling results identified that petroleum compound contamination (primary gasoline and related constituents) is present at the Site.
- Contaminants in soil samples were detected above applicable MTCA CULs in four of the six borings. Depths of contaminated soil ranged from 5 to 25 feet bgs.
- Contaminants in groundwater samples were detected above applicable MTCA CULs in all six of the borings. Groundwater was encountered at depths between 15 and 20 feet bgs.
- Total and dissolved metals were detected in the groundwater samples above applicable MTCA CULs which may be caused by the reducing conditions created by the petroleum compound contamination. Of the dissolved metals that were detected, only arsenic was detected above the applicable MTCA CUL.

This investigation confirmed that the source of the contamination is on the 2625 East Montlake Place East property where petroleum and related contaminant concentrations were the highest. Contaminant concentrations in soil are highest in the area of the UST vault and the eastern pump island (Figure 3). Soil contaminant concentrations declined with an increasing distance from this area. Spatially, soil contaminant concentrations above applicable MTCA CULs appear to be limited to the area north of the Northwest Automotive building, extending north, east, and west to areas beneath East Montlake Place East and the SR520 eastbound on ramp. Contamination in soil is likely to extend deeper than the deepest samples collected in borings H-16-18, H-17-18, H-19-18, and H-20-18 because contamination was present in the deepest soil sample from these borings.

Based upon the concentrations of VOCs in soil and groundwater and the proximity of existing buildings on the property, it is recommended that an assessment of the potential for vapor intrusion be conducted. Ecology guidance for vapor intrusion studies can be found at:

<https://fortress.wa.gov/ecy/publications/documents/0909047.pdf>

It is also recommended that monitoring wells be installed and sufficiently developed and purged so unfiltered groundwater samples can be collected and analyzed to further evaluate total metals concentrations.

In addition, contaminated soil located on the 2625 East Montlake Place East property be remediated using excavation and disposal when the USTs and ancillary facilities are removed. The resulting excavation could be treated with an appropriate bioremediation product to enhance the breakdown of remaining contaminants in soil and groundwater. Subsequent groundwater monitoring is also recommended until contaminant concentrations are below MTCA CULs.

5.0 LIMITATIONS

This report is based on the site conditions, data, and other information available as of the date of the report, and the conclusions herein are applicable only to the time frame in which the report was prepared. Background information used to prepare this report including, but not limited to site plans and other data have been furnished to INNOVEX by WSDOT and as available on Ecology's website. INNOVEX has relied on this information as furnished and is neither responsible for nor has confirmed the accuracy of this information.

6.0 REFERENCES

- INNOVEX, 2016. Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. December 8, 2016.
- INNOVEX, 2017. Supplemental Sampling and Analysis Plan for SR520 Bridge Replacement and HOV Program – Stelter Montlake LLC Phase II Environmental Site Assessment, Seattle, Washington. October 16, 2017.
- INNOVEX, 2018a. Supplemental Phase II Environmental Site Assessment, State SR520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. January 26, 2018.
- INNOVEX, 2018b. Second Supplemental Phase II Environmental Site Assessment, SR520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. June 15, 2018.

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December 13, 2018



16310 NE 80th St., Suite 300
Redmond, WA 98052
(800) 988-7880

LATTITUDE 47° 38' 38" NORTH
LONGITUDE 122° 18' 15" WEST
SCALE 1:50,000
7.5 MINUTE QUADRANGLE MAP
SEATTLE NORTH, WASHINGTON

0 1000 2000
SCALE IN FEET

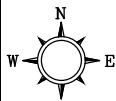
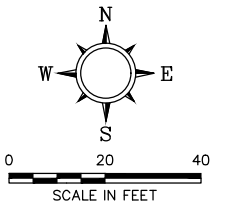
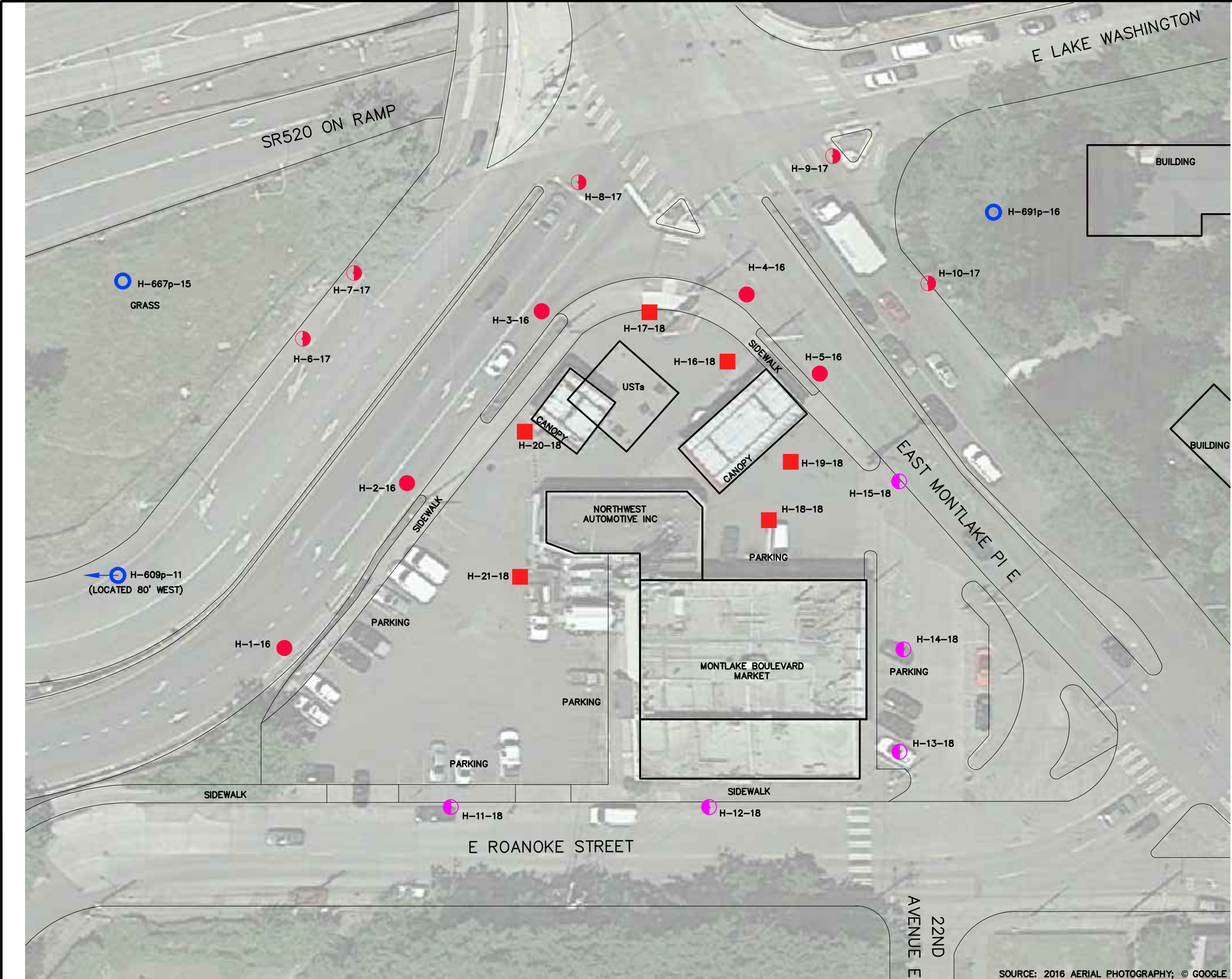


FIGURE 1
Site Location Map

2625 East Montlake Place East
SEATTLE, WASHINGTON



LEGEND

- H-1-16 SOIL BORING LOCATION (2016 ESA)
- H-10-17 SOIL BORING LOCATION (2017 ESA)
- H-11-18 SOIL BORING LOCATION (2018 ESA#1)
- H-667p-15 GEOTECHNICAL EXPLORATIONS
- H-16-18 SOIL BORING LOCATION (2018 ESA#2)

DESIGNED BY

Innovex Environmental
Colin Duffy

DRAWN BY

ICD
December 17, 2018

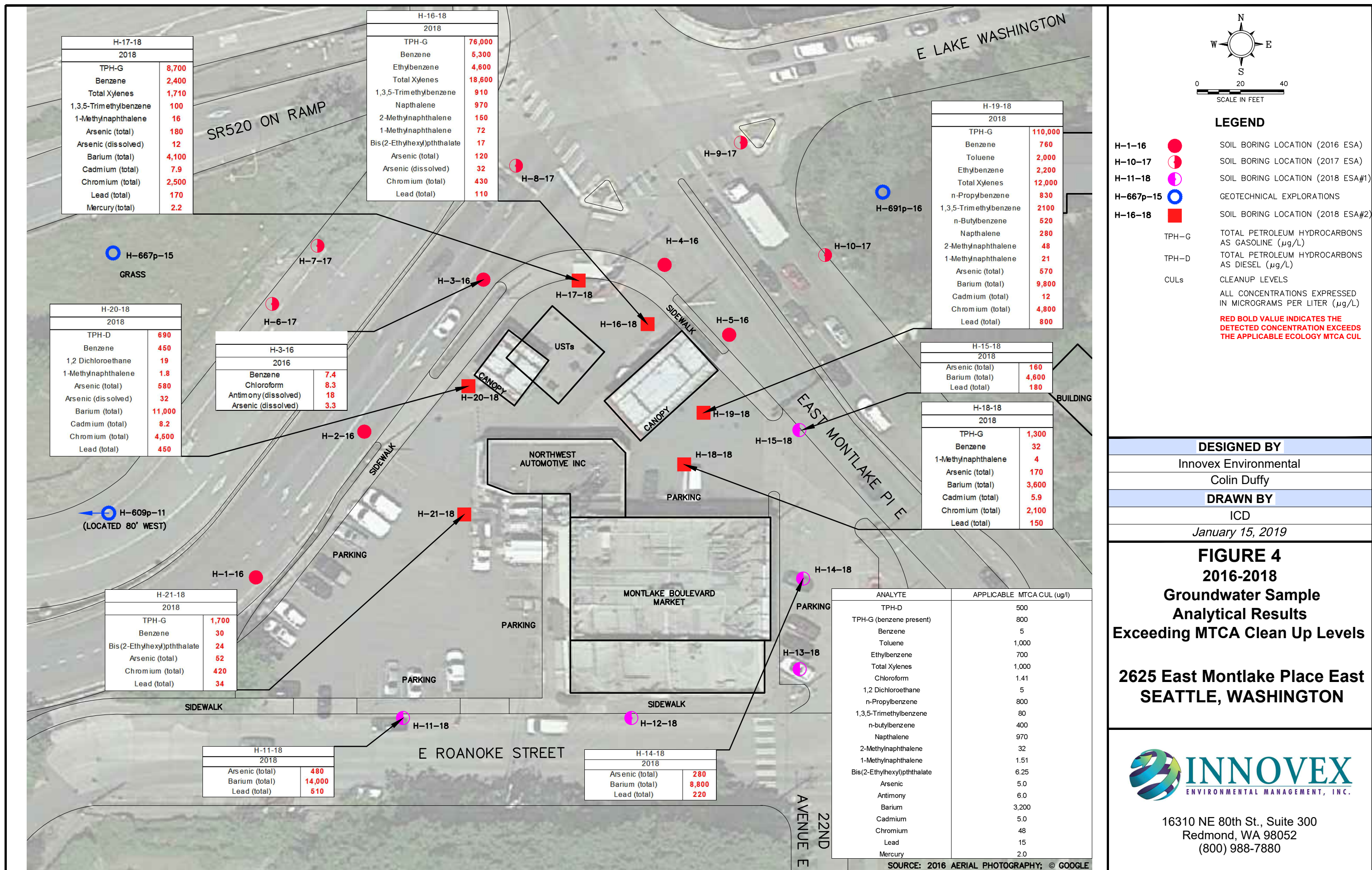
FIGURE 2

**2016-2018
Boring Location Map**

**2625 East Montlake Place East
SEATTLE, WASHINGTON**



16310 NE 80th St., Suite 300
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TABLES

Table 1. Petroleum Hydrocarbon Soil Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Gasoline Range Hydrocarbons	Diesel Range Hydrocarbons	Oil Range Hydrocarbons
			(mg/kg)	(mg/kg)	(mg/kg)
H-16-18-10	12/3/2018	10	15	ND	ND
H-16-18-15	12/3/2018	15	130	ND	ND
H-16-18-25	12/4/2018	25	17	ND	ND
H-17-18-10	12/4/2018	10	180	ND	ND
H-18-18-25	12/5/2018	25	ND	ND	59
H-19-18-5	12/5/2018	5	3,100	ND	6,000
H-19-18-15	12/6/2018	15	5,600	ND	82
H-19-18-25	12/6/2018	25	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND
MTCA Cleanup Level			30	2,000	2,000

ND Not detected

99 Exceeds cleanup level

* Field duplicate of H-21-18-20

Table 2: Volatile Organic Compounds Detected in Soil Samples¹
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Acetone	Carbon Disulfide	Methylene Chloride	2-Butanone	Benzene	Toluene	Ethyl-benzene	Total-xylenes	Isopropyl-benzene	n-Propyl-benzene	4-Chloro-toluene	tert-Butyl-benzene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	p-Isopropyl-toluene	n-Butyl-benzene	Napthalene
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-16-18-10	12/3/2018	10	ND	ND	ND	ND	1.4	ND	1.8	ND	0.17	0.55	ND	ND	ND	ND	0.071	ND	0.18	0.099
H-16-18-15	12/3/2018	15	ND	ND	ND	ND	0.50	ND	2.6	3.60	0.31	1.3	ND	ND	1.2	4.7	0.18	0.14	0.75	1.8
H-16-18-25	12/4/2018	25	ND	ND	ND	ND	0.17	ND	0.91	2.34	0.13	0.48	ND	ND	0.62	2.0	0.072	ND	0.28	0.45
H-17-18-10	12/4/2018	10	ND	ND	ND	ND	0.098	ND	0.33	ND	0.44	1.8	0.052	ND	0.11	ND	0.57	0.45	2.0	0.32
H-18-18-25	12/5/2018	25	0.024	0.0020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	ND	ND	ND	ND	0.27	ND	2.7	23.8	0.74	1.5	ND	ND	6.1	21	0.51	1.2	2.7	4.4
H-19-18-15	12/6/2018	15	ND	ND	ND	ND	1.3	7.3	17	80	3.1	8.6	ND	0.060	19	61	1.3	2.3	7.4	11
H-19-18-25	12/6/2018	25	0.054	0.0020	ND	0.013	0.0050	0.017	0.023	0.123	0.0059	0.012	ND	ND	0.031	0.082	0.0030	0.0038	0.0074	0.0063
H-20-18-10	12/6/2018	10	0.080	ND	ND	0.023	0.93	0.028	0.034	0.0261	0.012	0.0029	ND	ND	0.0035	0.0035	ND	0.0059	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level			2.07	0.266	0.00148	48,000	0.00174	0.273	0.343	0.831	8,000	8,000	No CUL	8,000	800	No CUL	8,000	No CUL	4,000	0.236

ND

Not detected

99

Exceeds cleanup level

*

Field duplicate of H-21-18-20

1

Listed analytes are those that have historically been detected at the Site

Table 3. Semivolatile Organic Compounds Detected in Soil Samples¹
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Napthalene	2-Methyl-naphthalene	1-Methy-lnaphthalene	Diethyl-phthalate	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo[b]fluoranthene	Benzo[a]pyrene	Benzo[j,k]fluoranthene	Indeno[1,2,3-cd]pyrene	Dibenz[a,h]anthracene	Benzo[g,h,i]perylene
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-16-18-10	12/3/2018	10	1.1	1.0	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-16-18-15	12/3/2018	15	2.4	2.7	1.4	ND	0.014	0.025	0.099	0.023	0.042	0.041	ND	ND	ND	ND	ND	ND	ND	ND
H-16-18-25	12/4/2018	25	0.41	0.40	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-17-18-10	12/4/2018	10	0.023	0.070	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-18-18-25	12/5/2018	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	6.7	1.2	0.58	ND	ND	ND	0.29	ND	ND	0.22	ND	0.29	ND	ND	ND	ND	ND	ND
H-19-18-15	12/6/2018	15	3.7	1.3	0.60	ND	ND	ND	0.017	ND	0.012	0.014	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-25	12/6/2018	25	0.46	0.16	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level			0.236	320	34.5	4.72	4.98	5.12	No CUL	114	31.6	32.8	0.0429	4.77	0.147	0.116	1.47	0.416	0.0214	No CUL

NDNot detected

99Exceeds cleanup level

*Field duplicate of H-21-18-20

1Listed analytes are those that have historically been detected at the Site

Table 4. **Polychlorinated Biphenyls Soil Analytical Results**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Aroclor 1016	Aroclor 1212	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-16-18-10	12/3/2018	10	ND	ND	ND	ND	ND	ND	ND
H-16-18-15	12/3/2018	15	ND	ND	ND	ND	ND	ND	ND
H-16-18-25	12/4/2018	25	ND	ND	ND	ND	ND	ND	ND
H-17-18-10	12/4/2018	10	ND	ND	ND	ND	ND	ND	ND
H-18-18-25	12/5/2018	25	ND	ND	ND	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	ND	ND	ND	ND	ND	ND	ND
H-19-18-15	12/6/2018	15	ND	ND	ND	ND	ND	ND	ND
H-19-18-25	12/6/2018	25	ND	ND	ND	ND	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	ND	ND	ND	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND

ND Not detected
* Field duplicate of H-21-18-20

Table 5. Metals Soil Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Depth (feet)	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
H-16-18-10	12/3/2018	10	ND	200	ND	81	8.5	ND	ND	ND
H-16-18-15	12/3/2018	15	ND	92	ND	63	ND	ND	ND	ND
H-16-18-25	12/4/2018	25	ND	48	ND	35	ND	ND	ND	ND
H-17-18-10	12/4/2018	10	ND	110	ND	66	ND	ND	ND	ND
H-18-18-25	12/5/2018	25	ND	56	ND	120	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	ND	100	ND	35	13	ND	ND	ND
H-19-18-15	12/6/2018	15	ND	76	ND	53	8.2	ND	ND	ND
H-19-18-25	12/6/2018	25	ND	57	ND	49	6.0	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	130	ND	58	ND	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	52	ND	52	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	55	ND	52	ND	ND	ND	ND
MTCA Cleanup Level			0.146	82.6	2.0	24,000	150	0.105	0.26	0.687

ND

Not detected

99

Exceeds cleanup level

*

Field duplicate of H-21-18-20

Table 6. Petroleum Hydrocarbon Groundwater Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Gasoline Range Hydrocarbons	Diesel Range Hydrocarbons	Oil Range Hydrocarbons
		(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	76,000	ND	0.84
H-17-18-GW	12/4/2018	8,700	ND	ND
H-18-18-GW	12/5/2018	1,300	ND	ND
H-19-18-GW	12/6/2018	110,000	ND	380
H-20-18-GW	12/6/2018	590	690	ND
H-21-18-GW	12/6/2018	1,700	ND	ND
H-22-18-GW*	12/6/2018	1,800	-	-
MTCA Cleanup Level		800	500	500

ND Not detected

99 Exceeds cleanup level

- Not analyzed

* Field duplicate of H-21-18-GW

Table 7. Volatile Organic Compounds Detected in Groundwater Samples¹
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Acetone	Bromo-chloro-methane	Chloroform	Methylene Chloride	2-Butanone	Benzene	1,2-Dichloro-ethane	Toluene	Chloro-benzene	Ethyl-benzene	Total-xylenes	Isopropyl-benzene	n-Propyl-benzene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	p-Isopropyl-toluene	n-Butyl-benzene	Napthalene
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	ND	ND	ND	ND	ND	5,300	ND	510	ND	4,600	18,600	170	540	910	3,300	24	16	87	970
H-17-18-GW	12/4/2018	ND	ND	ND	ND	ND	2,400	ND	70	ND	520	1,710	43	110	100	370	ND	ND	17	95
H-18-18-GW	12/5/2018	ND	ND	ND	ND	ND	32	ND	10	ND	84	321	4.0	9.9	16	63	ND	ND	1.2	12
H-19-18-GW	12/6/2018	ND	ND	ND	ND	ND	760	ND	2,000	ND	2,200	12,000	420	830	2,100	7,000	ND	200	520	ND
H-20-18-GW	12/6/2018	160	ND	ND	ND	10	450	19	7.5	0.23	6.2	16.6	15	30	1.8	4.5	2.0	26	2.1	ND
H-21-18-GW	12/6/2018	ND	ND	ND	ND	ND	30	ND	26	ND	81	297	7.7	15	23	100	1.8	2.4	ND	28
H-22-18-GW*	12/6/2018	ND	ND	ND	ND	ND	28	ND	24	ND	78	284	7.0	14	21	93	1.6	2.2	ND	26
MTCA Cleanup Level		7,200	No CUL	1.41	5.0	4,800	5.0	5.0	1,000	160	700	1,000	800	800	80	No CUL	800	No CUL	400	160

ND

Not detected

99

Exceeds cleanup level

*

Field duplicate of H-21-18-GW

1

Listed analytes are those that have historically been detected at the Site

Table 8. Semivolatile Organic Compounds Detected in Groundwater Samples¹
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	2,4-Dimethyl-phenol	Napthalene	2-Methylnaph-thalene	1-Methylnaph-thalene	Anthra-cene	Acenap-thene	Acenaph-thylene	Diethy-phthalate	Bis(2-Ethyl-hexyl) pththalate	Di-n-butyl-phthalate	Fluorene	Phenan-threne	Fluoran-thene	Pyrene	Benzo[a]anthracene	Chrysene	Benzo[b]fluoranthene	Benzo[a]pyrene	Benzo[j,k]fluoran-thene	Indeno-[1,2,3-cd]-pyrene	Dibenz[a,h]anthracene	Benzo-[g,h,i]perylene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	9.6	570	150	72	ND	0.23	ND	ND	17	ND	0.33	0.32	ND	ND	0.027	0.024	0.012	0.016	ND	ND	ND	0.016
H-17-18-GW	12/4/2018	ND	98	27	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-18-18-GW	12/5/2018	2.7	33	6.7	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-GW	12/6/2018	ND	280	48	21	ND	ND	ND	ND	ND	ND	0.17	0.23	ND	ND	0.025	0.035	0.029	0.020	ND	0.017	ND	0.022
H-20-18-GW	12/6/2018	ND	1.1	2.5	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-GW	12/6/2018	ND	8.5	2.4	1.5	ND	ND	ND	ND	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level		160	160	32	1.51	4,800	960	No CUL	12,800	6.25	1,600	640	No CUL	640	480	0.12	12	0.12	0.1	1.2	0.12	0.012	No CUL

NDNot detected

99Exceeds cleanup level

1Listed analytes are those that have historically been detected at the Site

Table 9. **Polychlorinated Biphenyls Groundwater Analytical Results**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Aroclor 1016	Aroclor 1212	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	ND	ND	ND	ND	ND	ND	ND
H-17-18-GW	12/4/2018	ND	ND	ND	ND	ND	ND	ND
H-18-18-GW	12/5/2018	ND	ND	ND	ND	ND	ND	ND
H-19-18-GW	12/6/2018	ND	ND	ND	ND	ND	ND	ND
H-20-18-GW	12/6/2018	NA	NA	NA	NA	NA	NA	NA
H-21-18-GW	12/6/2018	ND	ND	ND	ND	ND	ND	ND

ND Not detected
NA Not analyzed

Table 10. Metals Groundwater Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
		Arsenic		Barium		Cadmium		Chromium		Lead		Mercury		Selenium		Silver	
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	120	32	1,300	150	ND	ND	430	ND	110	1.7	0.53	ND	ND	ND	ND	ND
H-17-18-GW	12/4/2018	180	12	4,100	66	7.9	ND	2,500	ND	170	ND	2.2	ND	59	ND	ND	ND
H-18-18-GW	12/5/2018	170	ND	3,600	ND	5.9	ND	2,100	ND	150	ND	1.8	ND	16	ND	ND	ND
H-19-18-GW	12/6/2018	570	3.9	9,800	37	12	ND	4,800	ND	800	1.2	1.8	ND	76	ND	ND	ND
H-20-18-GW	12/6/2018	580	32	11,000	79	8.2	ND	4,500	ND	450	ND	0.60	ND	46	ND	ND	ND
H-21-18-GW	12/6/2018	52	ND	820	ND	ND	ND	420	ND	34	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level		5.0		3,200		5.0		48		15		2.0		80		80	

NDNot detected

99Exceeds cleanup level

APPENDICES

APPENDIX A

BORING LOGS



FIELD LOG OF BORING

Drilling Co. : <u>Holocene</u>	Job No. : _____	Boring No. : <u>H-16-18</u>
Drilling Rig Eq : <u>Geoprobe 340LC</u>	Job Name : <u>Montlake Phase 2</u>	
Drilling Method : <u>Sonic</u>	Logged by : <u>Colin Doty</u>	
Drill Diameter : <u>4" N/A</u>	Location : <u>Montlake Market</u>	
Weather Conditions : <u>Cold, clear, 30°F</u>	Start Date : <u>12/3/18</u>	End Date : <u>12/3/18</u>

o/o
Recor.

100%

100%

100%

40%

100%

Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
	23:30	26			5'			grey sandy silt, gravel, moist rounded
	23:35	113	413		10'			grey silty clay, moist
	23:45	114	414		15'			grey silty clay, moist, layer of granite, likely a cobble
	00:00	17	19	27.8	20'			grey silty sand, moist, rounded gravel
	00:05	38	50	38.5	25'			grey silty sand, round gravel, moist
					30'			
					35'			
					40'			
					45'			
					50'			

GROUNDWATER DATA

Water Depth	Time	Date
20'	00:15	12/3/18
	H-16-18-6W	

COMMENTS (i.e. materials used, visitors, problems etc.) :

GW sample ID 0045

SUMMARY OF TIME

Boring/Sample : _____ hrs.	Standby : _____ hrs.
Setup/Cleanup : _____ hrs.	Decon : _____ hrs.
Boring No. : _____	Sheet _____ of _____

FIELD LOG OF BORING

Drilling Co. : W. L. C. Co.
Drilling Rig Eq : Geopline 8140 LC
Drilling Method : Sonic
Drill Diameter : 4" 1/2
Weather Conditions : clear 32°F

Job No. : _____ Boring No. : 4-7-15
Job Name : Montlake Phase 2
Logged by : Colin Duff
Location : Montlake Market
Start Date : 12/7/18 End Date : 8/4/19

do
Recon.

4036

1028/0

root

128/10

100%

[illegible]

GROUNDWATER DATA

Water Depth	Time	Date
20	0330	12/4/15
	H-17-18-6W	

COMMENTS (i.e. materials used; visitors, problems etc.) :

Ev sample at 1371

SUMMARY OF TIME

Boring/Sample : _____ hrs.	Standby : _____ hrs.
Setup/Cleanup : _____ hrs.	Decon: _____ hrs.
Boring No. : _____	Sheet _____ of _____



FIELD LOG OF BORING

Drilling Co.: POLOCENE
Drilling Rig Eq: Oceanic 81402C
Drilling Method: Sonic
Drill Diameter: 4"
Weather Conditions: 38°F Clear

Job No. : _____ Boring No. : 11
Job Name : Montlake Phase II
Logged by : Colin Duffy
Location : Montlake Market
Start Date : 12/4/18 End Date : 12/15/18

Boring No. : 11-18-18

[illegible]

GROUNDWATER DATA

COMMENTS (i.e. materials used; visitors, problems etc.) :

Water Depth	Time	Date
20'	0145	12/5/90

SUMMARY OF TIME

Boring/Sample : _____ hrs.	Standby : _____ hrs.
Setup/Cleanup : _____ hrs.	Decon: _____ hrs.
Boring No. : _____	Sheet _____ of _____

FIELD LOG OF BORING

[illegible]

GROUNDWATER DATA			COMMENTS (i.e. materials used; visitors, problems etc.) :
Water Depth	Time	Date	
20'	011	12/6/18	GW sample #1-19-18 -GW
SUMMARY OF TIME			
Boring/Sample : _____ hrs.	Standby : _____ hrs.		
Setup/Cleanup : _____ hrs.	Decon: _____ hrs.		
Boring No. : _____	Sheet _____ of _____		

FIELD LOG OF BORING

Drilling Co.: Holocean

Job No. :

Boring No. : 4-20-18

Drilling Rig Eq: Geoprobe 8140C

Job Name: Montlake Market Phase 2

Drilling Method : Sonic

Logged by : C. D. Offin

Drill Diameter : 4"

Location: Montlake Market

Weather Conditions: 28°F Clear

Start Date: 12/6/18 End Date: 12/6/18

[illegible]

FIELD LOG OF BORING

Drilling Co.: Holocene
Drilling Rig Eq: Geophone 81402C

Job No. :

Boring No. : 11-21-18

Drilling Rig Eq: Geoprobe Q140LC

Job Name: Montlake Phase 2

Drilling Method : Sonic

Logged by : C. Duff

Drill Diameter : 4

Location : mountain mark-

Weather Conditions : 30° clear

Start Date: 12/6/18 End Date: 12/6/18

[illegible]

GROUNDWATER DATA

COMMENTS (i.e. materials used; visitors, problems etc.) :

Water Depth	Time	Date
15'	2345	12/6/14

6-w sample H-21-18-6-w
Dup: H-22-18-6-w VOCs/6+only

SUMMARY OF TIME

Boring/Sample : _____ hrs.	Standby : _____ hrs.
Setup/Cleanup : _____ hrs.	Decon: _____ hrs.
Boring No. : _____	Sheet _____ of _____

APPENDIX B

ANALYTICAL REPORTS



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

December 5, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-014

Dear Glenn

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2018.

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 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

Case Narrative

Samples were collected on December 3 and 4, 2018 and received by the laboratory on December 4, 2018. 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

Some MTCA Method A cleanup levels are non-achievable for samples H-16-18-10, H-16-18-15 and H-16-18-25 due to the necessary dilution of the samples.

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 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
Gasoline	15	14	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	96	57-129				
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
Gasoline	130	12	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	86	57-129				
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
Gasoline	17	11	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	82	57-129				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Gasoline	ND	5.0	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-208-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				76	82	57-129		



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
Gasoline	76000	5000	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	66-117				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
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 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Gasoline	ND	100	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-003-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				90	90	66-117		



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
Diesel Range Organics	ND	96	NWTPH-Dx	12-4-18	12-5-18	U1,M1
Lube Oil Range Organics	ND	64	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	85	50-150				
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
Diesel Range Organics	ND	140	NWTPH-Dx	12-4-18	12-5-18	U1,M1
Lube Oil Range Organics	ND	61	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	78	50-150				
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
Diesel Range Organics	ND	28	NWTPH-Dx	12-4-18	12-5-18	
Lube Oil Range Organics	ND	56	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	88	50-150				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-4-18	12-4-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	94	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-208-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range Organics	93.1	56.8	NA	NA	NA	NA	48	NA
Surrogate:								
<i>o</i> -Terphenyl				80	94	50-150		



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
Diesel Range Organics	ND	6.9	NWTPH-Dx	12-5-18	12-5-18	U1,M1
Lube Oil Range Organics	0.84	0.50	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	85	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB1205W1									
	ORIG	DUP								
Diesel Range	0.974	0.929	NA	NA		NA	NA	5	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						94	95	50-150		



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
Dichlorodifluoromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.70	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.35	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.35	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Benzene	1.4	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.35	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.35	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.070	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
1,1,2-Trichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	1.8	0.070	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.14	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.17	0.070	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	0.55	0.070	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.071	0.070	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	0.18	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Naphthalene	0.099	0.070	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	109	68-139				
Toluene-d8	98	79-128				
4-Bromofluorobenzene	100	71-132				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
Dichlorodifluoromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.53	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.26	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.26	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Benzene	0.50	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.26	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.26	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.053	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
1,1,2-Trichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	2.6	0.053	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	3.1	0.11	EPA 8260C	12-4-18	12-4-18	
o-Xylene	0.50	0.053	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.31	0.053	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	1.3	0.053	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	1.2	0.053	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	4.7	0.053	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.18	0.053	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	0.14	0.053	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	0.75	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Naphthalene	1.8	0.053	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	68-139				
Toluene-d8	98	79-128				
4-Bromofluorobenzene	99	71-132				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
Dichlorodifluoromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.49	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.24	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Benzene	0.17	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.049	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
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VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
1,1,2-Trichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	0.91	0.049	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	1.9	0.097	EPA 8260C	12-4-18	12-4-18	
o-Xylene	0.44	0.049	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.13	0.049	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	0.48	0.049	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	0.62	0.049	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	2.0	0.049	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.072	0.049	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	0.28	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Naphthalene	0.45	0.049	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	106	68-139				
Toluene-d8	100	79-128				
4-Bromofluorobenzene	102	71-132				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS 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:	MB1204S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.010	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1204S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>71-132</i>				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1204S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0431	0.0428	0.0500	0.0500	86	86	53-141	1	17	
Benzene	0.0494	0.0492	0.0500	0.0500	99	98	70-130	0	15	
Trichloroethene	0.0469	0.0454	0.0500	0.0500	94	91	74-122	3	16	
Toluene	0.0478	0.0472	0.0500	0.0500	96	94	76-130	1	15	
Chlorobenzene	0.0451	0.0438	0.0500	0.0500	90	88	75-120	3	14	
Surrogate:										
Dibromofluoromethane					105	106	68-139			
Toluene-d8					100	99	79-128			
4-Bromofluorobenzene					99	99	71-132			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
Dichlorodifluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	250	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	10	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	50	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	250	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Benzene	5300	100	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	100	EPA 8260C	12-4-18	12-4-18	
Toluene	510	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
1,1,2-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	100	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	4600	100	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	14000	200	EPA 8260C	12-4-18	12-4-18	
o-Xylene	4600	100	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	50	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	170	10	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	540	10	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	910	10	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	3300	100	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	24	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	16	10	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	87	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	10	EPA 8260C	12-4-18	12-4-18	
Naphthalene	970	50	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	91	75-127				
Toluene-d8	92	80-127				
4-Bromofluorobenzene	88	78-125				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-014-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-014-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	75-127				
Toluene-d8	99	80-127				
4-Bromofluorobenzene	96	78-125				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS 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:	MB1204W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1204W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.1	10.4	10.0	10.0	111	104	62-129	7	15	
Benzene	10.7	10.2	10.0	10.0	107	102	77-127	5	15	
Trichloroethene	10.3	9.79	10.0	10.0	103	98	70-120	5	15	
Toluene	10.4	10.0	10.0	10.0	104	100	82-123	4	15	
Chlorobenzene	9.86	9.17	10.0	10.0	99	92	79-120	7	15	
Surrogate:										
Dibromofluoromethane					99	103	75-127			
Toluene-d8					99	100	80-127			
4-Bromofluorobenzene					95	97	78-125			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
n-Nitrosodimethylamine	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Pyridine	ND	0.41	EPA 8270D	12-4-18	12-5-18	
Phenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Aniline	ND	0.20	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2-Chlorophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,3-Dichlorobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,4-Dichlorobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Benzyl alcohol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
1,2-Dichlorobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270D	12-4-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270D	12-4-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Hexachloroethane	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Nitrobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Isophorone	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2-Nitrophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,4-Dimethylphenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,4-Dichlorophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Naphthalene	2.4	0.041	EPA 8270D	12-4-18	12-5-18	
4-Chloroaniline	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Hexachlorobutadiene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2-Methylnaphthalene	2.7	0.20	EPA 8270D	12-4-18	12-5-18	
1-Methylnaphthalene	1.4	0.041	EPA 8270D	12-4-18	12-5-18	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,3-Dichloroaniline	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2-Chloronaphthalene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2-Nitroaniline	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,4-Dinitrobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Dimethylphthalate	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,3-Dinitrobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,6-Dinitrotoluene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,2-Dinitrobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	0.041	EPA 8270D	12-4-18	12-5-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Acenaphthene	0.014	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,4-Dinitrotoluene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Dibenzofuran	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Diethylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270D	12-4-18	12-5-18	
4-Nitroaniline	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Fluorene	0.025	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270D	12-4-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270D	12-4-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Hexachlorobenzene	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Pentachlorophenol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Phenanthrene	0.099	0.041	EPA 8270D	12-4-18	12-5-18	
Anthracene	0.023	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	0.041	EPA 8270D	12-4-18	12-5-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Fluoranthene	0.042	0.041	EPA 8270D	12-4-18	12-5-18	
Benzidine	ND	0.41	EPA 8270D	12-4-18	12-5-18	
Pyrene	0.041	0.041	EPA 8270D	12-4-18	12-5-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	81	19 - 103				
Phenol-d6	80	30 - 103				
Nitrobenzene-d5	82	27 - 105				
2-Fluorobiphenyl	84	36 - 102				
2,4,6-Tribromophenol	92	33 - 110				
Terphenyl-d14	84	38 - 108				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Pyridine	ND	0.33	EPA 8270D	12-4-18	12-4-18	
Phenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Aniline	ND	0.17	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Isophorone	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	0.33	EPA 8270D	12-4-18	12-4-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	81	19 - 103				
Phenol-d6	85	30 - 103				
Nitrobenzene-d5	81	27 - 105				
2-Fluorobiphenyl	87	36 - 102				
2,4,6-Tribromophenol	93	33 - 110				
Terphenyl-d14	91	38 - 108				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.19	1.21	1.33	1.33	89	91	45 - 105	2	29	
2-Chlorophenol	1.18	1.19	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	0.582	0.567	0.667	0.667	87	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	0.574	0.564	0.667	0.667	86	85	45 - 105	2	26	
1,2,4-Trichlorobenzene	0.604	0.582	0.667	0.667	91	87	45 - 105	4	32	
4-Chloro-3-methylphenol	1.23	1.20	1.33	1.33	92	90	55 - 105	2	21	
Acenaphthene	0.583	0.566	0.667	0.667	87	85	48 - 105	3	21	
4-Nitrophenol	1.10	1.09	1.33	1.33	83	82	53 - 105	1	20	
2,4-Dinitrotoluene	0.643	0.634	0.667	0.667	96	95	47 - 105	1	19	
Pentachlorophenol	1.17	1.04	1.33	1.33	88	78	35 - 125	12	26	
Pyrene	0.599	0.585	0.667	0.667	90	88	55 - 110	2	17	
Surrogate:										
2-Fluorophenol					87	85	19 - 103			
Phenol-d6					87	88	30 - 103			
Nitrobenzene-d5					85	82	27 - 105			
2-Fluorobiphenyl					90	88	36 - 102			
2,4,6-Tribromophenol					100	93	33 - 110			
Terphenyl-d14					87	86	38 - 108			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
n-Nitrosodimethylamine	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	0.43	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	0.21	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	0.21	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.043	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.043	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.043	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Naphthalene	1.1	0.043	EPA 8270D	12-5-18	12-5-18	
4-Chloroaniline	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	1.0	0.043	EPA 8270D	12-5-18	12-5-18	
1-Methylnaphthalene	0.51	0.043	EPA 8270D	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	0.043	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
2,4-Dinitrophenol	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	0.21	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.043	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.043	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.043	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	0.043	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	0.43	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	0.21	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.21	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	0.21	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	74	19 - 103				
Phenol-d6	75	30 - 103				
Nitrobenzene-d5	63	27 - 105				
2-Fluorobiphenyl	68	36 - 102				
2,4,6-Tribromophenol	72	33 - 110				
Terphenyl-d14	61	38 - 108				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	0.37	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	0.19	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Naphthalene	0.41	0.037	EPA 8270D	12-5-18	12-5-18	
4-Chloroaniline	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	0.40	0.037	EPA 8270D	12-5-18	12-5-18	
1-Methylnaphthalene	0.18	0.037	EPA 8270D	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	0.037	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	0.037	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	0.37	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	79	19 - 103				
Phenol-d6	79	30 - 103				
Nitrobenzene-d5	71	27 - 105				
2-Fluorobiphenyl	83	36 - 102				
2,4,6-Tribromophenol	90	33 - 110				
Terphenyl-d14	84	38 - 108				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1205S2						
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	0.33	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	0.17	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Naphthalene	ND	0.017	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	0.33	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	85	19 - 103				
Phenol-d6	89	30 - 103				
Nitrobenzene-d5	87	27 - 105				
2-Fluorobiphenyl	94	36 - 102				
2,4,6-Tribromophenol	96	33 - 110				
Terphenyl-d14	88	38 - 108				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.22	1.18	1.33	1.33	92	89	45 - 105	3	29	
2-Chlorophenol	1.19	1.18	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	0.585	0.570	0.667	0.667	88	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	0.560	0.551	0.667	0.667	84	83	45 - 105	2	26	
1,2,4-Trichlorobenzene	0.652	0.634	0.667	0.667	98	95	45 - 105	3	32	
4-Chloro-3-methylphenol	1.30	1.22	1.33	1.33	98	92	55 - 105	6	21	
Acenaphthene	0.600	0.573	0.667	0.667	90	86	48 - 105	5	21	
4-Nitrophenol	1.11	1.07	1.33	1.33	83	80	53 - 105	4	20	
2,4-Dinitrotoluene	0.695	0.652	0.667	0.667	104	98	47 - 105	6	19	
Pentachlorophenol	1.31	1.39	1.33	1.33	98	105	35 - 125	6	26	
Pyrene	0.627	0.587	0.667	0.667	94	88	55 - 110	7	17	
Surrogate:										
2-Fluorophenol					90	85	19 - 103			
Phenol-d6					92	88	30 - 103			
Nitrobenzene-d5					89	87	27 - 105			
2-Fluorobiphenyl					94	89	36 - 102			
2,4,6-Tribromophenol					103	100	33 - 110			
Terphenyl-d14					93	86	38 - 108			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
n-Nitrosodimethylamine	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Pyridine	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Phenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Aniline	ND	5.4	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	ND	1.1	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	ND	1.1	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.1	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Isophorone	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	9.6	5.4	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Naphthalene	570	22	EPA 8270D	12-4-18	12-5-18	
4-Chloroaniline	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	150	5.4	EPA 8270D	12-4-18	12-5-18	
1-Methylnaphthalene	72	5.4	EPA 8270D	12-4-18	12-5-18	
Hexachlorocyclopentadiene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	ND	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	1.1	EPA 8270D	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
2,4-Dinitrophenol	ND	5.4	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	0.23	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	5.4	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	ND	1.1	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	ND	1.1	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Fluorene	0.33	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	5.4	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	ND	1.1	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	ND	1.2	EPA 8270D	12-4-18	12-4-18	U1
4-Bromophenyl-phenylether	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	ND	5.4	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	0.32	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	ND	5.4	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	ND	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	5.4	EPA 8270D	12-4-18	12-4-18	
Pyrene	ND	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	1.1	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	ND	5.4	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	0.027	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	0.024	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	17	5.4	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	ND	1.1	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	0.012	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	0.016	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	0.016	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	19	12 - 80				
Phenol-d6	42	10 - 82				
Nitrobenzene-d5	57	30 - 103				
2-Fluorobiphenyl	58	33 - 103				
2,4,6-Tribromophenol	84	20 - 121				
Terphenyl-d14	42	32 - 113				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Pyridine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Phenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Aniline	ND	5.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Isophorone	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Fluorene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Pyrene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[j,k]fluoranthene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	54	12 - 80				
Phenol-d6	43	10 - 82				
Nitrobenzene-d5	84	30 - 103				
2-Fluorobiphenyl	90	33 - 103				
2,4,6-Tribromophenol	100	20 - 121				
Terphenyl-d14	108	32 - 113				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	16.5	16.0	40.0	40.0	41	40	24 - 52	3	28	
2-Chlorophenol	29.5	28.1	40.0	40.0	74	70	44 - 91	5	30	
1,4-Dichlorobenzene	13.9	12.8	20.0	20.0	70	64	36 - 82	8	33	
n-Nitroso-di-n-propylamine	14.8	14.4	20.0	20.0	74	72	43 - 93	3	29	
1,2,4-Trichlorobenzene	14.6	14.1	20.0	20.0	73	71	40 - 86	3	28	
4-Chloro-3-methylphenol	34.4	35.6	40.0	40.0	86	89	49 - 99	3	25	
Acenaphthene	15.9	16.1	20.0	20.0	80	81	47 - 90	1	25	
4-Nitrophenol	17.9	17.1	40.0	40.0	45	43	23 - 61	5	30	
2,4-Dinitrotoluene	17.5	17.6	20.0	20.0	88	88	42 - 97	1	26	
Pentachlorophenol	36.2	36.6	40.0	40.0	91	92	39 - 115	1	29	
Pyrene	18.8	18.8	20.0	20.0	94	94	51 - 100	0	22	
Surrogate:										
2-Fluorophenol					51	47	12 - 80			
Phenol-d6					39	37	10 - 82			
Nitrobenzene-d5					78	76	30 - 103			
2-Fluorobiphenyl					79	79	33 - 103			
2,4,6-Tribromophenol					85	84	20 - 121			
Terphenyl-d14					93	92	32 - 113			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
Aroclor 1016	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.064	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	76	39-130				
Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
Aroclor 1016	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.061	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	75	39-130				
Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
Aroclor 1016	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.056	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	75	39-130				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	39-130				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1205S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.368	0.386	0.500	0.500	N/A	74	77	56-124	5	18	
Surrogate:											
DCB						88	93	39-130			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
Aroclor 1016	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	ND	0.066	EPA 8082A	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	76	44-144				



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	112	44-144				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1204W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.525	0.535	0.500	0.500	N/A	105	107	71-131	2	12	
Surrogate:											
DCB						124	123	44-144			



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-10					
Laboratory ID:	12-014-02					
Arsenic	ND	13	EPA 6010D	12-4-18	12-4-18	
Barium	200	3.2	EPA 6010D	12-4-18	12-4-18	
Cadmium	ND	0.64	EPA 6010D	12-4-18	12-4-18	
Chromium	81	0.64	EPA 6010D	12-4-18	12-4-18	
Lead	8.5	6.4	EPA 6010D	12-4-18	12-4-18	
Mercury	ND	0.32	EPA 7471B	12-5-18	12-5-18	
Selenium	ND	13	EPA 6010D	12-4-18	12-4-18	
Silver	ND	1.3	EPA 6010D	12-4-18	12-4-18	

Client ID:	H-16-18-15					
Laboratory ID:	12-014-03					
Arsenic	ND	12	EPA 6010D	12-4-18	12-4-18	
Barium	92	3.0	EPA 6010D	12-4-18	12-4-18	
Cadmium	ND	0.61	EPA 6010D	12-4-18	12-4-18	
Chromium	63	0.61	EPA 6010D	12-4-18	12-4-18	
Lead	ND	6.1	EPA 6010D	12-4-18	12-4-18	
Mercury	ND	0.30	EPA 7471B	12-5-18	12-5-18	
Selenium	ND	12	EPA 6010D	12-4-18	12-4-18	
Silver	ND	1.2	EPA 6010D	12-4-18	12-4-18	

Client ID:	H-16-18-25					
Laboratory ID:	12-014-05					
Arsenic	ND	11	EPA 6010D	12-4-18	12-4-18	
Barium	48	2.8	EPA 6010D	12-4-18	12-4-18	
Cadmium	ND	0.56	EPA 6010D	12-4-18	12-4-18	
Chromium	35	0.56	EPA 6010D	12-4-18	12-4-18	
Lead	ND	5.6	EPA 6010D	12-4-18	12-4-18	
Mercury	ND	0.28	EPA 7471B	12-5-18	12-5-18	
Selenium	ND	11	EPA 6010D	12-4-18	12-4-18	
Silver	ND	1.1	EPA 6010D	12-4-18	12-4-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204SM1					
Arsenic	ND	10	EPA 6010D	12-4-18	12-4-18	
Barium	ND	2.5	EPA 6010D	12-4-18	12-4-18	
Cadmium	ND	0.50	EPA 6010D	12-4-18	12-4-18	
Chromium	ND	0.50	EPA 6010D	12-4-18	12-4-18	
Lead	ND	5.0	EPA 6010D	12-4-18	12-4-18	
Selenium	ND	10	EPA 6010D	12-4-18	12-4-18	
Silver	ND	1.0	EPA 6010D	12-4-18	12-4-18	

Laboratory ID:	MB1205S1					
Mercury	ND	0.25	EPA 7471B	12-5-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-257-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	23.9	24.0	NA	NA	NA	1	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	15.2	15.2	NA	NA	NA	0	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	11-258-01							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	11-257-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	93.9	93.3	100	100	ND	94	93	75-125	1	20
Barium	133	124	100	100	23.9	109	101	75-125	6	20
Cadmium	46.4	46.1	50.0	50.0	ND	93	92	75-125	1	20
Chromium	113	110	100	100	15.2	98	95	75-125	3	20
Lead	236	237	250	250	ND	94	95	75-125	0	20
Selenium	95.7	96.2	100	100	ND	96	96	75-125	1	20
Silver	22.2	22.4	25.0	25.0	ND	89	90	75-125	1	20

Laboratory ID:	11-258-01									
Mercury	0.542	0.549	0.500	0.500	0.0178	105	106	80-120	1	20



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

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Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
Arsenic	120	33	EPA 200.8	12-5-18	12-5-18	
Barium	1300	280	EPA 200.8	12-5-18	12-5-18	
Cadmium	ND	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	430	110	EPA 200.8	12-5-18	12-5-18	
Lead	110	11	EPA 200.8	12-5-18	12-5-18	
Mercury	0.53	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	ND	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	ND	11	EPA 200.8	12-5-18	12-5-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205WM1					
Arsenic	ND	3.3	EPA 200.8	12-5-18	12-5-18	
Barium	ND	28	EPA 200.8	12-5-18	12-5-18	
Cadmium	ND	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	ND	11	EPA 200.8	12-5-18	12-5-18	
Lead	ND	1.1	EPA 200.8	12-5-18	12-5-18	
Selenium	ND	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	ND	11	EPA 200.8	12-5-18	12-5-18	

Laboratory ID:	MB1205W1					
Mercury	ND	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-03							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	ND	ND	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	ND	ND	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	12-003-01							
Mercury	0.790	0.845	NA	NA	NA	NA	7	20

MATRIX SPIKES

Laboratory ID:	11-213-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	232	228	222	222	ND	105	103	75-125	2	20
Barium	233	233	222	222	ND	105	105	75-125	0	20
Cadmium	231	236	222	222	ND	104	106	75-125	2	20
Chromium	218	213	222	222	ND	98	96	75-125	2	20
Lead	211	209	222	222	ND	95	94	75-125	1	20
Selenium	199	217	222	222	ND	90	98	75-125	9	20
Silver	241	239	222	222	ND	109	108	75-125	1	20

Laboratory ID:	12-003-01									
Mercury	6.11	5.70	6.25	6.25	0.790	85	79	75-125	7	20



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Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-16-18-GW					
Laboratory ID:	12-014-06					
Arsenic	32	3.0	EPA 200.8	12-4-18	12-5-18	
Barium	150	25	EPA 200.8	12-4-18	12-5-18	
Cadmium	ND	4.0	EPA 200.8	12-4-18	12-5-18	
Chromium	ND	10	EPA 200.8	12-4-18	12-5-18	
Lead	1.7	1.0	EPA 200.8	12-4-18	12-5-18	
Mercury	ND	0.50	EPA 7470A	12-4-18	12-5-18	
Selenium	ND	5.0	EPA 200.8	12-4-18	12-5-18	
Silver	ND	10	EPA 200.8	12-4-18	12-5-18	



Date of Report: December 5, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-014
 Project: Montlake

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204F1					
Arsenic	ND	3.0	EPA 200.8	12-4-18	12-4-18	
Barium	ND	25	EPA 200.8	12-4-18	12-4-18	
Cadmium	ND	4.0	EPA 200.8	12-4-18	12-4-18	
Chromium	ND	10	EPA 200.8	12-4-18	12-4-18	
Lead	ND	1.0	EPA 200.8	12-4-18	12-4-18	
Selenium	ND	5.0	EPA 200.8	12-4-18	12-4-18	
Silver	ND	10	EPA 200.8	12-4-18	12-4-18	

Laboratory ID:	MB1204F1					
Mercury	ND	0.50	EPA 7470A	12-4-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-02							
	ORIG	DUP						
Arsenic	3.16	3.80	NA	NA	NA	NA	18	20
Barium	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-003-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	11-213-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	79.6	83.6	80.0	80.0	3.16	96	101	75-125	5	20
Barium	87.8	83.8	80.0	80.0	ND	110	105	75-125	5	20
Cadmium	79.4	79.4	80.0	80.0	ND	99	99	75-125	0	20
Chromium	75.4	76.4	80.0	80.0	ND	94	96	75-125	1	20
Lead	76.0	77.6	80.0	80.0	ND	95	97	75-125	2	20
Selenium	79.0	82.2	80.0	80.0	ND	99	103	75-125	4	20
Silver	87.2	87.2	80.0	80.0	ND	109	109	75-125	0	20

Laboratory ID:	12-003-01									
Mercury	5.38	5.10	12.5	12.5	ND	43	41	75-125	5	20



Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

% MOISTURE

Date Analyzed: 12-4-18

Client ID	Lab ID	% Moisture
H-16-18-10	12-014-02	22
H-16-18-15	12-014-03	18
H-16-18-25	12-014-05	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

Page 1 of 1

Turnaround Request (in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☐ _____ (other)

Laboratory Number:

12-014

Company: INNOVEX
Project Number: _____
Project Name: Mentake
Project Manager: Glenn Hayman
Sampled by: Cole Doffy

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	H-16-18-S	12/3/18	2330	S	5
2	-10		2335	S	5
3	-15		2345	S	5
4	-20	12/4/18	0000	S	5
5	-25	12/4/18	0025	S	5
6	14-16-18-GW	12/4/18	0045	W	12
7	Temp Blank	12/4/18	-	W	1

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 RCRA	
TCLP Metals	
HEM (oil and grease) 1664A	
Dissolved RCRA Metals	
% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>INNOVEX</u>	<u>12/4/18</u>	<u>0015</u>	<u>Hold samples shown above</u>
<u>[Signature]</u>	<u>OS&</u>	<u>12.4.18</u>	<u>6:15A</u>	<u>(X) added 12/4/18. DB (1 day TAR)</u>

Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
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 6, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-015

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2018.

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 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

Case Narrative

Samples were collected on December 4, 2018 and received by the laboratory on December 4, 2018. 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

Some MTCA Method A cleanup levels are non-achievable for sample H-17-18-10 due to the necessary dilution of the sample.

Semivolatiles EPA 8270D/SIM (water) Analysis

Sample H-17-18-GW had three surrogate recoveries outside of control limits. The sample was re-extracted and re-analyzed with similar results, indicating probable matrix interference.

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: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
Gasoline	180	9.7	NWTPH-Gx	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	57-129				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Gasoline	ND	5.0	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-208-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				76	82	57-129		



Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
Gasoline	8700	1000	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	97	66-117				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Gasoline	ND	100	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	84	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-003-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				90	90	66-117		



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
Diesel Range Organics	ND	30	NWTPH-Dx	12-4-18	12-5-18	
Lube Oil Range Organics	ND	59	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	77	50-150				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-4-18	12-4-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-208-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range Organics	93.1	56.8	NA	NA	NA	48	NA	
Surrogate:								
o-Terphenyl				80	94	50-150		



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
Diesel Range Organics	ND	1.5	NWTPH-Dx	12-5-18	12-5-18	U1,M1
Lube Oil Range Organics	ND	0.49	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	85	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB1205W1									
	ORIG	DUP								
Diesel Range	0.974	0.929	NA	NA		NA	NA	5	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						94	95	50-150		



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
Dichlorodifluoromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.48	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.24	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Benzene	0.098	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.048	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
1,1,2-Trichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	0.33	0.048	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.096	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.44	0.048	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	1.8	0.048	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	0.052	0.048	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	0.11	0.048	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.57	0.048	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	0.45	0.048	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	2.0	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Naphthalene	0.32	0.048	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	68-139				
Toluene-d8	105	79-128				
4-Bromofluorobenzene	93	71-132				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS 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:	MB1204S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.010	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	68-139				
Toluene-d8	99	79-128				
4-Bromofluorobenzene	99	71-132				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1204S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0431	0.0428	0.0500	0.0500	86	86	53-141	1	17	
Benzene	0.0494	0.0492	0.0500	0.0500	99	98	70-130	0	15	
Trichloroethene	0.0469	0.0454	0.0500	0.0500	94	91	74-122	3	16	
Toluene	0.0478	0.0472	0.0500	0.0500	96	94	76-130	1	15	
Chlorobenzene	0.0451	0.0438	0.0500	0.0500	90	88	75-120	3	14	
Surrogate:										
Dibromofluoromethane					105	106	68-139			
Toluene-d8					100	99	79-128			
4-Bromofluorobenzene					99	99	71-132			



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
Dichlorodifluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	250	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	10	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	50	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	250	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Benzene	2400	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	100	EPA 8260C	12-4-18	12-4-18	
Toluene	70	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
1,1,2-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	100	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	520	10	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	1300	20	EPA 8260C	12-4-18	12-4-18	
o-Xylene	410	10	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	50	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	43	10	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	110	10	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	100	10	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	370	10	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	17	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	10	EPA 8260C	12-4-18	12-4-18	
Naphthalene	95	50	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	91	75-127				
Toluene-d8	94	80-127				
4-Bromofluorobenzene	89	78-125				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-015-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-015-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	75-127				
Toluene-d8	97	80-127				
4-Bromofluorobenzene	94	78-125				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS 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: MB1204W1						
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1204W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.1	10.4	10.0	10.0	111	104	62-129	7	15	
Benzene	10.7	10.2	10.0	10.0	107	102	77-127	5	15	
Trichloroethene	10.3	9.79	10.0	10.0	103	98	70-120	5	15	
Toluene	10.4	10.0	10.0	10.0	104	100	82-123	4	15	
Chlorobenzene	9.86	9.17	10.0	10.0	99	92	79-120	7	15	
Surrogate:										
Dibromofluoromethane					99	103	75-127			
Toluene-d8					99	100	80-127			
4-Bromofluorobenzene					95	97	78-125			



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
n-Nitrosodimethylamine	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Pyridine	ND	0.39	EPA 8270D	12-4-18	12-5-18	
Phenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Aniline	ND	0.20	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2-Chlorophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,3-Dichlorobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,4-Dichlorobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Benzyl alcohol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
1,2-Dichlorobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270D	12-4-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270D	12-4-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Hexachloroethane	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Nitrobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Isophorone	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2-Nitrophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,4-Dimethylphenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,4-Dichlorophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Naphthalene	0.023	0.020	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Hexachlorobutadiene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2-Methylnaphthalene	0.070	0.039	EPA 8270D	12-4-18	12-5-18	
1-Methylnaphthalene	0.018	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,3-Dichloroaniline	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2-Chloronaphthalene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2-Nitroaniline	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,4-Dinitrobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Dimethylphthalate	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,3-Dinitrobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,6-Dinitrotoluene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,2-Dinitrobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Acenaphthylene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	0.039	EPA 8270D	12-4-18	12-5-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Acenaphthene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,4-Dinitrotoluene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Dibenzofuran	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Diethylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270D	12-4-18	12-5-18	
4-Nitroaniline	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Fluorene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270D	12-4-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270D	12-4-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Hexachlorobenzene	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Pentachlorophenol	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Phenanthrene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	0.039	EPA 8270D	12-4-18	12-5-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Fluoranthene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	0.39	EPA 8270D	12-4-18	12-5-18	
Pyrene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	77	19 - 103				
Phenol-d6	77	30 - 103				
Nitrobenzene-d5	74	27 - 105				
2-Fluorobiphenyl	75	36 - 102				
2,4,6-Tribromophenol	80	33 - 110				
Terphenyl-d14	72	38 - 108				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Pyridine	ND	0.33	EPA 8270D	12-4-18	12-4-18	
Phenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Aniline	ND	0.17	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Isophorone	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1204S2						
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	0.033	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	0.33	EPA 8270D	12-4-18	12-4-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	81	19 - 103				
Phenol-d6	85	30 - 103				
Nitrobenzene-d5	81	27 - 105				
2-Fluorobiphenyl	87	36 - 102				
2,4,6-Tribromophenol	93	33 - 110				
Terphenyl-d14	91	38 - 108				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.19	1.21	1.33	1.33	89	91	45 - 105	2	29	
2-Chlorophenol	1.18	1.19	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	0.582	0.567	0.667	0.667	87	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	0.574	0.564	0.667	0.667	86	85	45 - 105	2	26	
1,2,4-Trichlorobenzene	0.604	0.582	0.667	0.667	91	87	45 - 105	4	32	
4-Chloro-3-methylphenol	1.23	1.20	1.33	1.33	92	90	55 - 105	2	21	
Acenaphthene	0.583	0.566	0.667	0.667	87	85	48 - 105	3	21	
4-Nitrophenol	1.10	1.09	1.33	1.33	83	82	53 - 105	1	20	
2,4-Dinitrotoluene	0.643	0.634	0.667	0.667	96	95	47 - 105	1	19	
Pentachlorophenol	1.17	1.04	1.33	1.33	88	78	35 - 125	12	26	
Pyrene	0.599	0.585	0.667	0.667	90	88	55 - 110	2	17	
Surrogate:										
2-Fluorophenol					87	85	19 - 103			
Phenol-d6					87	88	30 - 103			
Nitrobenzene-d5					85	82	27 - 105			
2-Fluorobiphenyl					90	88	36 - 102			
2,4,6-Tribromophenol					100	93	33 - 110			
Terphenyl-d14					87	86	38 - 108			



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
n-Nitrosodimethylamine	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Pyridine	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Phenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Aniline	ND	6.7	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	ND	1.3	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	ND	1.3	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.3	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Isophorone	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Naphthalene	98	6.7	EPA 8270D	12-4-18	12-6-18	
4-Chloroaniline	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	27	1.3	EPA 8270D	12-4-18	12-4-18	
1-Methylnaphthalene	16	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachlorocyclopentadiene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	1.3	EPA 8270D	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
2,4-Dinitrophenol	ND	6.7	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	6.7	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	ND	1.3	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	ND	1.3	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Fluorene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	6.7	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	ND	1.3	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	ND	1.3	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	ND	6.7	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	ND	6.7	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	6.7	EPA 8270D	12-4-18	12-4-18	
Pyrene	ND	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	1.3	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	ND	6.7	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	6.7	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	ND	1.3	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	2.3	12 - 80				Q
Phenol-d6	2.1	10 - 82				Q
Nitrobenzene-d5	84	30 - 103				
2-Fluorobiphenyl	81	33 - 103				
2,4,6-Tribromophenol	17	20 - 121				Q
Terphenyl-d14	88	32 - 113				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Pyridine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Phenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Aniline	ND	5.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Isophorone	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Fluorene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Pyrene	ND	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[j,k]fluoranthene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	54	12 - 80				
Phenol-d6	43	10 - 82				
Nitrobenzene-d5	84	30 - 103				
2-Fluorobiphenyl	90	33 - 103				
2,4,6-Tribromophenol	100	20 - 121				
Terphenyl-d14	108	32 - 113				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	16.5	16.0	40.0	40.0	41	40	24 - 52	3	28	
2-Chlorophenol	29.5	28.1	40.0	40.0	74	70	44 - 91	5	30	
1,4-Dichlorobenzene	13.9	12.8	20.0	20.0	70	64	36 - 82	8	33	
n-Nitroso-di-n-propylamine	14.8	14.4	20.0	20.0	74	72	43 - 93	3	29	
1,2,4-Trichlorobenzene	14.6	14.1	20.0	20.0	73	71	40 - 86	3	28	
4-Chloro-3-methylphenol	34.4	35.6	40.0	40.0	86	89	49 - 99	3	25	
Acenaphthene	15.9	16.1	20.0	20.0	80	81	47 - 90	1	25	
4-Nitrophenol	17.9	17.1	40.0	40.0	45	43	23 - 61	5	30	
2,4-Dinitrotoluene	17.5	17.6	20.0	20.0	88	88	42 - 97	1	26	
Pentachlorophenol	36.2	36.6	40.0	40.0	91	92	39 - 115	1	29	
Pyrene	18.8	18.8	20.0	20.0	94	94	51 - 100	0	22	
Surrogate:										
2-Fluorophenol					51	47	12 - 80			
Phenol-d6					39	37	10 - 82			
Nitrobenzene-d5					78	76	30 - 103			
2-Fluorobiphenyl					79	79	33 - 103			
2,4,6-Tribromophenol					85	84	20 - 121			
Terphenyl-d14					93	92	32 - 113			



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
Aroclor 1016	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.059	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	77	39-130				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	39-130				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1205S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.368	0.386	0.500	0.500	N/A	74	77	56-124	5	18	
Surrogate:											
DCB						88	93	39-130			



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
Aroclor 1016	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	ND	0.063	EPA 8082A	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	69	44-144				



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-4-18	12-4-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	112	44-144				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1204W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.525	0.535	0.500	0.500	N/A	105	107	71-131	2	12	
Surrogate:											
DCB						124	123	44-144			



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-10					
Laboratory ID:	12-015-02					
Arsenic	ND	13	EPA 6010D	12-4-18	12-4-18	
Barium	110	3.4	EPA 6010D	12-4-18	12-4-18	
Cadmium	ND	0.67	EPA 6010D	12-4-18	12-4-18	
Chromium	66	0.67	EPA 6010D	12-4-18	12-4-18	
Lead	ND	6.7	EPA 6010D	12-4-18	12-4-18	
Mercury	ND	0.34	EPA 7471B	12-5-18	12-5-18	
Selenium	ND	13	EPA 6010D	12-4-18	12-4-18	
Silver	ND	1.3	EPA 6010D	12-4-18	12-4-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204SM1					
Arsenic	ND	10	EPA 6010D	12-4-18	12-4-18	
Barium	ND	2.5	EPA 6010D	12-4-18	12-4-18	
Cadmium	ND	0.50	EPA 6010D	12-4-18	12-4-18	
Chromium	ND	0.50	EPA 6010D	12-4-18	12-4-18	
Lead	ND	5.0	EPA 6010D	12-4-18	12-4-18	
Selenium	ND	10	EPA 6010D	12-4-18	12-4-18	
Silver	ND	1.0	EPA 6010D	12-4-18	12-4-18	

Laboratory ID:	MB1205S1					
Mercury	ND	0.25	EPA 7471B	12-5-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-257-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	23.9	24.0	NA	NA	NA	1	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	15.2	15.2	NA	NA	NA	0	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	11-258-01							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	11-257-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	93.9	93.3	100	100	ND	94	93	75-125	1	20
Barium	133	124	100	100	23.9	109	101	75-125	6	20
Cadmium	46.4	46.1	50.0	50.0	ND	93	92	75-125	1	20
Chromium	113	110	100	100	15.2	98	95	75-125	3	20
Lead	236	237	250	250	ND	94	95	75-125	0	20
Selenium	95.7	96.2	100	100	ND	96	96	75-125	1	20
Silver	22.2	22.4	25.0	25.0	ND	89	90	75-125	1	20

Laboratory ID:	11-258-01									
Mercury	0.542	0.549	0.500	0.500	0.0178	105	106	80-120	1	20



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 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
Arsenic	180	33	EPA 200.8	12-5-18	12-5-18	
Barium	4100	280	EPA 200.8	12-5-18	12-5-18	
Cadmium	7.9	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	2500	110	EPA 200.8	12-5-18	12-5-18	
Lead	170	11	EPA 200.8	12-5-18	12-5-18	
Mercury	2.2	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	59	11	EPA 200.8	12-5-18	12-5-18	
Silver	ND	11	EPA 200.8	12-5-18	12-5-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205WM1					
Arsenic	ND	3.3	EPA 200.8	12-5-18	12-5-18	
Barium	ND	28	EPA 200.8	12-5-18	12-5-18	
Cadmium	ND	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	ND	11	EPA 200.8	12-5-18	12-5-18	
Lead	ND	1.1	EPA 200.8	12-5-18	12-5-18	
Selenium	ND	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	ND	11	EPA 200.8	12-5-18	12-5-18	

Laboratory ID:	MB1205W1					
Mercury	ND	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-03							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	ND	ND	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	ND	ND	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	12-003-01							
Mercury	0.790	0.845	NA	NA	NA	NA	7	20

MATRIX SPIKES

Laboratory ID:	11-213-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	232	228	222	222	ND	105	103	75-125	2	20
Barium	233	233	222	222	ND	105	105	75-125	0	20
Cadmium	231	236	222	222	ND	104	106	75-125	2	20
Chromium	218	213	222	222	ND	98	96	75-125	2	20
Lead	211	209	222	222	ND	95	94	75-125	1	20
Selenium	199	217	222	222	ND	90	98	75-125	9	20
Silver	241	239	222	222	ND	109	108	75-125	1	20

Laboratory ID:	12-003-01									
Mercury	6.11	5.70	6.25	6.25	0.790	85	79	75-125	7	20



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 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-17-18-GW					
Laboratory ID:	12-015-06					
Arsenic	12	3.0	EPA 200.8	12-4-18	12-5-18	
Barium	66	25	EPA 200.8	12-4-18	12-5-18	
Cadmium	ND	4.0	EPA 200.8	12-4-18	12-5-18	
Chromium	ND	10	EPA 200.8	12-4-18	12-5-18	
Lead	ND	1.0	EPA 200.8	12-4-18	12-5-18	
Mercury	ND	0.50	EPA 7470A	12-4-18	12-5-18	
Selenium	ND	5.0	EPA 200.8	12-4-18	12-5-18	
Silver	ND	10	EPA 200.8	12-4-18	12-5-18	



Date of Report: December 6, 2018
 Samples Submitted: December 4, 2018
 Laboratory Reference: 1812-015
 Project: Montlake

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204F1					
Arsenic	ND	3.0	EPA 200.8	12-4-18	12-4-18	
Barium	ND	25	EPA 200.8	12-4-18	12-4-18	
Cadmium	ND	4.0	EPA 200.8	12-4-18	12-4-18	
Chromium	ND	10	EPA 200.8	12-4-18	12-4-18	
Lead	ND	1.0	EPA 200.8	12-4-18	12-4-18	
Selenium	ND	5.0	EPA 200.8	12-4-18	12-4-18	
Silver	ND	10	EPA 200.8	12-4-18	12-4-18	

Laboratory ID:	MB1204F1					
Mercury	ND	0.50	EPA 7470A	12-4-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-02							
	ORIG	DUP						
Arsenic	3.16	3.80	NA	NA	NA	NA	18	20
Barium	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-003-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	11-213-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	79.6	83.6	80.0	80.0	3.16	96	101	75-125	5	20
Barium	87.8	83.8	80.0	80.0	ND	110	105	75-125	5	20
Cadmium	79.4	79.4	80.0	80.0	ND	99	99	75-125	0	20
Chromium	75.4	76.4	80.0	80.0	ND	94	96	75-125	1	20
Lead	76.0	77.6	80.0	80.0	ND	95	97	75-125	2	20
Selenium	79.0	82.2	80.0	80.0	ND	99	103	75-125	4	20
Silver	87.2	87.2	80.0	80.0	ND	109	109	75-125	0	20

Laboratory ID:	12-003-01									
Mercury	5.38	5.10	12.5	12.5	ND	43	41	75-125	5	20



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

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

% MOISTURE

Date Analyzed: 12-4-18

Client ID	Lab ID	% Moisture
H-17-18-10	12-015-02	15





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





Page 1 of 1

INDEX

(Check One)

☐ Same Day ☒ 1 Day

☐ Same Day
 ☒ 1 Day

☐ 2 Days
 ☐ 3 Days

☐ Standard (7 Days)

☐ Standard (7 Days)

☐ (other) _____

Cohen Hayman
Cohen Doffky

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

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

Dissolved PCRA models

% Moisture	
100	100
90	90
80	80
70	70
60	60
50	50
40	40
30	30
20	20
10	10
0	0

12-015

Company: INNOVEX						
Project Number:						
Project Name: Mountlake						
Project Manager: Glenn Hayman						
Sampled by: Corn Doffy						
(Check One) ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days)						
☐ _____ (other)						
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	
1	H-17-18-S	12/4/18	0200	S		
2	-10	12/4/18	0220	S		
3	-15	12/4/18	0230	S		
4	-20	12/4/18	0250	S		
5	-25	12/4/18	0310	S		
6	-30	12/4/18	0330	S		
7	H-17-18-GW	12/4/18	-	N		
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						
TCPL Metals						
HEM (oil and grease) 1664A						
Dissolved RCRA Metals						
% Moisture						



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

December 7, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-029

Dear Glenn

Enclosed are the analytical results and associated quality control data for samples submitted on December 5, 2018.

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, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

Case Narrative

Samples were collected on December 5, 2018 and received by the laboratory on December 5, 2018. 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, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
Gasoline	ND	5.2	NWTPH-Gx	12-5-18	12-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	81	57-129				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Gasoline	ND	5.0	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-035-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				76	75	57-129		



Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
Gasoline	1300	100	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	66-117				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Gasoline	ND	100	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-025-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				86	85	66-117		



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
Diesel Range Organics	ND	29	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil	59	58	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	94	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-029-05							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil	50.8	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				91	69	50-150		



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
Diesel Range Organics	ND	0.54	NWTPH-Dx	12-5-18	12-5-18	U1,M1
Lube Oil Range Organics	ND	0.49	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	85	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB1205W1									
	ORIG	DUP								
Diesel Fuel #2	0.974	0.929	NA	NA		NA	NA	5	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						94	95	50-150		



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Acetone	0.024	0.0087	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	0.0020	0.00087	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.0017	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	73	68-139				
Toluene-d8	98	79-128				
4-Bromofluorobenzene	93	71-132				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

VOLATILE ORGANICS 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:	MB1205S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	0.010	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	68-139				
Toluene-d8	100	79-128				
4-Bromofluorobenzene	98	71-132				



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 Laboratory Reference: 1812-029
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery						
SPIKE BLANKS											
Laboratory ID:	SB1205S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0438	0.0412	0.0500	0.0500	88	82	53-141	6	17		
Benzene	0.0510	0.0479	0.0500	0.0500	102	96	70-130	6	15		
Trichloroethene	0.0475	0.0446	0.0500	0.0500	95	89	74-122	6	16		
Toluene	0.0497	0.0461	0.0500	0.0500	99	92	76-130	8	15		
Chlorobenzene	0.0463	0.0433	0.0500	0.0500	93	87	75-120	7	14		
Surrogate:											
Dibromofluoromethane					107	108	68-139				
Toluene-d8					99	98	79-128				
4-Bromofluorobenzene					99	99	71-132				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	25	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	5.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	5.0	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	25	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Benzene	32	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	12-5-18	12-5-18	
Toluene	10	5.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-5-18	12-5-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	10	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	84	1.0	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	240	2.0	EPA 8260C	12-5-18	12-5-18	
o-Xylene	81	1.0	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	4.0	1.0	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	9.9	1.0	EPA 8260C	12-5-18	12-5-18	Y
2-Chlorotoluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	16	1.0	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	63	1.0	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	1.2	1.0	EPA 8260C	12-5-18	12-5-18	Y
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Naphthalene	12	6.5	EPA 8260C	12-5-18	12-5-18	Y
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	75-127				
Toluene-d8	96	80-127				
4-Bromofluorobenzene	94	78-125				



Date of Report: December 7, 2018
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 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-029-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-029-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	1.3	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	99	75-127				
Toluene-d8	100	80-127				
4-Bromofluorobenzene	95	78-125				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

VOLATILE ORGANICS 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:	MB1205W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1205W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	1.3	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	75-127				
Toluene-d8	99	80-127				
4-Bromofluorobenzene	95	78-125				



Date of Report: December 7, 2018
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 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					Recovery					
SPIKE BLANKS										
Laboratory ID:	SB1205W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.7	11.3	10.0	10.0	117	113	62-129	3	15	
Benzene	11.1	11.1	10.0	10.0	111	111	77-127	0	15	
Trichloroethene	10.9	10.5	10.0	10.0	109	105	70-120	4	15	
Toluene	10.8	10.6	10.0	10.0	108	106	82-123	2	15	
Chlorobenzene	9.96	9.89	10.0	10.0	100	99	79-120	1	15	
Surrogate:										
Dibromofluoromethane					98	101	75-127			
Toluene-d8					97	98	80-127			
4-Bromofluorobenzene					93	97	78-125			



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
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 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
n-Nitrosodimethylamine	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	0.39	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	0.19	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.039	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.039	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.039	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Naphthalene	ND	0.019	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	0.039	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.039	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.039	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.039	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	0.039	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	0.39	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	69	19 - 103				
Phenol-d6	71	30 - 103				
Nitrobenzene-d5	37	27 - 105				
2-Fluorobiphenyl	73	36 - 102				
2,4,6-Tribromophenol	74	33 - 110				
Terphenyl-d14	68	38 - 108				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	0.33	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	0.17	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Naphthalene	ND	0.017	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	0.033	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	0.33	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[j,k]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	85	19 - 103				
Phenol-d6	89	30 - 103				
Nitrobenzene-d5	87	27 - 105				
2-Fluorobiphenyl	94	36 - 102				
2,4,6-Tribromophenol	96	33 - 110				
Terphenyl-d14	88	38 - 108				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.22	1.18	1.33	1.33	92	89	45 - 105	3	29	
2-Chlorophenol	1.19	1.18	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	0.585	0.570	0.667	0.667	88	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	0.560	0.551	0.667	0.667	84	83	45 - 105	2	26	
1,2,4-Trichlorobenzene	0.652	0.634	0.667	0.667	98	95	45 - 105	3	32	
4-Chloro-3-methylphenol	1.30	1.22	1.33	1.33	98	92	55 - 105	6	21	
Acenaphthene	0.600	0.573	0.667	0.667	90	86	48 - 105	5	21	
4-Nitrophenol	1.11	1.07	1.33	1.33	83	80	53 - 105	4	20	
2,4-Dinitrotoluene	0.695	0.652	0.667	0.667	104	98	47 - 105	6	19	
Pentachlorophenol	1.31	1.39	1.33	1.33	98	105	35 - 125	6	26	
Pyrene	0.627	0.587	0.667	0.667	94	88	55 - 110	7	17	
Surrogate:										
2-Fluorophenol					90	85	19 - 103			
Phenol-d6					92	88	30 - 103			
Nitrobenzene-d5					89	87	27 - 105			
2-Fluorobiphenyl					94	89	36 - 102			
2,4,6-Tribromophenol					103	100	33 - 110			
Terphenyl-d14					93	86	38 - 108			



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
n-Nitrosodimethylamine	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	6.2	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	1.2	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	1.2	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.2	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	2.7	1.2	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Naphthalene	33	1.2	EPA 8270D	12-5-18	12-5-18	
4-Chloroaniline	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	6.7	1.2	EPA 8270D	12-5-18	12-5-18	
1-Methylnaphthalene	4.0	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	1.2	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
2,4-Dinitrophenol	ND	6.2	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	6.2	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	1.2	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	1.2	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	6.2	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	1.2	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	1.2	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	6.2	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	6.2	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	6.2	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	1.2	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	6.2	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	6.2	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	1.2	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	47	12 - 80				
Phenol-d6	40	10 - 82				
Nitrobenzene-d5	69	30 - 103				
2-Fluorobiphenyl	78	33 - 103				
2,4,6-Tribromophenol	86	20 - 121				
Terphenyl-d14	81	32 - 113				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Pyridine	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Phenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Aniline	ND	5.0	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Isophorone	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	ND	1.0	EPA 8270D	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	ND	5.0	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	ND	1.0	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Fluorene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	ND	5.0	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	ND	5.0	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	ND	5.0	EPA 8270D	12-5-18	12-5-18	
Pyrene	ND	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[j,k]fluoranthene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	47	12 - 80				
Phenol-d6	38	10 - 82				
Nitrobenzene-d5	69	30 - 103				
2-Fluorobiphenyl	78	33 - 103				
2,4,6-Tribromophenol	93	20 - 121				
Terphenyl-d14	86	32 - 113				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	16.2	16.2	40.0	40.0	41	41	24 - 52	0	28	
2-Chlorophenol	28.7	28.2	40.0	40.0	72	71	44 - 91	2	30	
1,4-Dichlorobenzene	13.2	12.8	20.0	20.0	66	64	36 - 82	3	33	
n-Nitroso-di-n-propylamine	14.1	14.4	20.0	20.0	71	72	43 - 93	2	29	
1,2,4-Trichlorobenzene	15.3	15.0	20.0	20.0	77	75	40 - 86	2	28	
4-Chloro-3-methylphenol	34.1	34.9	40.0	40.0	85	87	49 - 99	2	25	
Acenaphthene	15.9	15.9	20.0	20.0	80	80	47 - 90	0	25	
4-Nitrophenol	14.7	16.7	40.0	40.0	37	42	23 - 61	13	30	
2,4-Dinitrotoluene	18.0	18.6	20.0	20.0	90	93	42 - 97	3	26	
Pentachlorophenol	34.4	40.1	40.0	40.0	86	100	39 - 115	15	29	
Pyrene	17.1	17.3	20.0	20.0	86	87	51 - 100	1	22	
Surrogate:										
2-Fluorophenol					49	48	12 - 80			
Phenol-d6					39	39	10 - 82			
Nitrobenzene-d5					73	74	30 - 103			
2-Fluorobiphenyl					81	81	33 - 103			
2,4,6-Tribromophenol					93	95	20 - 121			
Terphenyl-d14					86	88	32 - 113			



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
Aroclor 1016	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.058	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	70	39-130				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-5-18	12-5-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	39-130				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S1									
	SB	SBD	SB	SBD		SB	SBD			
Aroclor 1260	0.368	0.386	0.500	0.500	N/A	74	77	56-124	5	18
Surrogate:										
DCB						88	93	39-130		



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
Aroclor 1016	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.048	EPA 8082A	12-7-18	12-7-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	108	44-144				



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	106	44-144				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1207W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.495	0.492	0.500	0.500	N/A	99	98	71-131	1	12	
Surrogate:											
DCB						111	116	44-144			



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
Arsenic	ND	12	EPA 6010D	12-5-18	12-5-18	
Barium	56	2.9	EPA 6010D	12-5-18	12-5-18	
Cadmium	ND	0.58	EPA 6010D	12-5-18	12-5-18	
Chromium	120	0.58	EPA 6010D	12-5-18	12-5-18	
Lead	ND	5.8	EPA 6010D	12-5-18	12-5-18	
Mercury	ND	0.29	EPA 7471B	12-5-18	12-5-18	
Selenium	ND	12	EPA 6010D	12-5-18	12-5-18	
Silver	ND	1.2	EPA 6010D	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205SM1					
Arsenic	ND	10	EPA 6010D	12-5-18	12-5-18	
Barium	ND	2.5	EPA 6010D	12-5-18	12-5-18	
Cadmium	ND	0.50	EPA 6010D	12-5-18	12-5-18	
Chromium	ND	0.50	EPA 6010D	12-5-18	12-5-18	
Lead	ND	5.0	EPA 6010D	12-5-18	12-5-18	
Selenium	ND	10	EPA 6010D	12-5-18	12-5-18	
Silver	ND	1.0	EPA 6010D	12-5-18	12-5-18	

Laboratory ID:	MB1205S1					
Mercury	ND	0.25	EPA 7471B	12-5-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-022-04							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	172	170	NA	NA	NA	1	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	68.7	69.1	NA	NA	NA	1	20	
Lead	6.85	5.90	NA	NA	NA	15	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	11-258-01							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	12-022-04									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	76.3	76.8	100	100	ND	76	77	75-125	1	20
Barium	257	260	100	100	172	86	88	75-125	1	20
Cadmium	44.4	43.5	50.0	50.0	ND	89	87	75-125	2	20
Chromium	158	155	100	100	68.7	89	86	75-125	2	20
Lead	224	222	250	250	6.85	87	86	75-125	1	20
Selenium	85.2	79.7	100	100	ND	85	80	75-125	7	20
Silver	19.1	18.8	25.0	25.0	ND	76	75	75-125	2	20

Laboratory ID:	11-258-01									
Mercury	0.542	0.549	0.500	0.500	0.0178	105	106	80-120	1	20



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

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Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
Arsenic	170	33	EPA 200.8	12-5-18	12-5-18	
Barium	3600	280	EPA 200.8	12-5-18	12-5-18	
Cadmium	5.9	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	2100	110	EPA 200.8	12-5-18	12-5-18	
Lead	150	11	EPA 200.8	12-5-18	12-5-18	
Mercury	1.8	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	16	11	EPA 200.8	12-5-18	12-5-18	
Silver	ND	11	EPA 200.8	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205WM1					
Arsenic	ND	3.3	EPA 200.8	12-5-18	12-5-18	
Barium	ND	28	EPA 200.8	12-5-18	12-5-18	
Cadmium	ND	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	ND	11	EPA 200.8	12-5-18	12-5-18	
Lead	ND	1.1	EPA 200.8	12-5-18	12-5-18	
Selenium	ND	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	ND	11	EPA 200.8	12-5-18	12-5-18	

Laboratory ID:	MB1205W1					
Mercury	ND	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-213-03									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Barium	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Silver	ND	ND	NA	NA		NA	NA	NA	20	

Laboratory ID:	12-003-01									
Mercury	0.790	0.845	NA	NA		NA	NA	7	20	

MATRIX SPIKES

Laboratory ID:	11-213-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	232	228	222	222	ND	105	103	75-125	2	20
Barium	233	233	222	222	ND	105	105	75-125	0	20
Cadmium	231	236	222	222	ND	104	106	75-125	2	20
Chromium	218	213	222	222	ND	98	96	75-125	2	20
Lead	211	209	222	222	ND	95	94	75-125	1	20
Selenium	199	217	222	222	ND	90	98	75-125	9	20
Silver	241	239	222	222	ND	109	108	75-125	1	20

Laboratory ID:	12-003-01									
Mercury	6.11	5.70	6.25	6.25	0.790	85	79	75-125	7	20



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Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-GW					
Laboratory ID:	12-029-06					
Arsenic	ND	3.0	EPA 200.8	12-5-18	12-5-18	
Barium	ND	25	EPA 200.8	12-5-18	12-5-18	
Cadmium	ND	4.0	EPA 200.8	12-5-18	12-5-18	
Chromium	ND	10	EPA 200.8	12-5-18	12-5-18	
Lead	ND	1.0	EPA 200.8	12-5-18	12-5-18	
Mercury	ND	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	ND	5.0	EPA 200.8	12-5-18	12-5-18	
Silver	ND	10	EPA 200.8	12-5-18	12-5-18	



Date of Report: December 7, 2018
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029
 Project: Montlake

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205F1					
Arsenic	ND	3.0	EPA 200.8	12-5-18	12-5-18	
Barium	ND	25	EPA 200.8	12-5-18	12-5-18	
Cadmium	ND	4.0	EPA 200.8	12-5-18	12-5-18	
Chromium	ND	10	EPA 200.8	12-5-18	12-5-18	
Lead	ND	1.0	EPA 200.8	12-5-18	12-5-18	
Selenium	ND	5.0	EPA 200.8	12-5-18	12-5-18	
Silver	ND	10	EPA 200.8	12-5-18	12-5-18	

Laboratory ID:	MB1205F1					
Mercury	ND	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-029-06							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Barium	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-003-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	12-029-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	203	193	200	200	ND	101	97	75-125	5	20
Barium	213	216	200	200	ND	107	108	75-125	1	20
Cadmium	197	198	200	200	ND	99	99	75-125	0	20
Chromium	175	174	200	200	ND	88	87	75-125	1	20
Lead	177	177	200	200	ND	88	89	75-125	0	20
Selenium	185	185	200	200	ND	92	93	75-125	0	20
Silver	203	198	200	200	ND	102	99	75-125	2	20

Laboratory ID:	12-003-01									
Mercury	5.38	5.10	6.25	6.25	ND	86	82	75-125	5	20



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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

% MOISTURE

Date Analyzed: 12-5-18

Client ID	Lab ID	% Moisture
H-18-18-25	12-029-05	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





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

Chain of Custody

Page 1 of 1

Company: TNOVEX						Turnaround Request (in working days)							Laboratory Number: 12-029																						
Project Number:						(Check One) ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days)																													
Project Name: Mentlake						☐																													
Project Manager: Glen Hayman						☐ (other) _____																													
Sampled by: Corn Doffy																																			
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 + Dissolved	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture												
1	H-18-18-S	12/5/18	0625	S	5	X		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X											
2	-10		0645	I	5			X	X	X			X	X	X	X	X	X	X	X	X	X	X	X											
3	-15		0100	I	5			X	X	X			X	X	X	X	X	X	X	X	X	X	X	X											
4	-20		0120	I	5			X	X	X			X	X	X	X	X	X	X	X	X	X	X	X											
5	-25		0140	I	5			X	X	X			X	X	X	X	X	X	X	X	X	X	X	X											
6	H-18-18-GW	12/5/18	0145	W	12	X		X	X	X			X	X	X	X	X	X	X	X	X	X	X	X											
7	Trip Blank	-	-	W	1					X																									
Signature: [Signature]						Company: TEM						Date: 12/5/18						Time: 0630						Comments/Special Instructions: Total & field filter for metals.											
Received: [Signature]						Relinquished: [Signature]						Received: [Signature]						Relinquished: [Signature]						Received: [Signature]						Relinquished: [Signature]					
Reviewed/Date: _____						Reviewed/Date: _____						Reviewed/Date: _____						Reviewed/Date: _____						Reviewed/Date: _____											



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

January 11, 2019

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-029B

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 5, 2018.

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: January 11, 2019
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029B
Project: Montlake

Case Narrative

Samples were collected on December 5, 2018 and received by the laboratory on December 5, 2018. 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 11, 2019
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029B
Project: Montlake

TCLP CHROMIUM
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-18-18-25					
Laboratory ID:	12-029-05					
Chromium	0.087	0.020	EPA 6010D	1-9-19	1-9-19	



Date of Report: January 11, 2019
 Samples Submitted: December 5, 2018
 Laboratory Reference: 1812-029B
 Project: Montlake

**TCLP CHROMIUM
 EPA 1311/6010D
 QUALITY CONTROL**

Matrix: TCLP Extract
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0109TM2					
Chromium	ND	0.020	EPA 6010D	1-9-19	1-9-19	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-004-01							
	ORIG	DUP						
Chromium	0.0294	0.0274	NA	NA	NA	7	20	

MATRIX SPIKES

Laboratory ID:	01-004-01							
	MS	MSD	MS	MSD	MS	MSD		
Chromium	3.99	3.99	4.00	4.00	0.0294	99	99	75-125 0 20





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





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

$$\exists n \forall v \in X$$

1000

Project Name:

Montlake

Project Manager:

1001

by: Glenn Hayman
Cora Doff

Lab ID

Sample Identification

[illegible][illegible]

Matrix

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx (☐ Acid / SG Clean-up)

Volatiles 8260C

Halogenated Volatiles 8260C

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	+ Dissolved
-------------------	-------------

Total MTCA Metals	
-------------------	--

TCLP Metals

HEM (oil and grease) 1664A

% Moisture	
------------	--

Chain of Custody

Turnaround Request
(in working days)☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

(other _____)

Laboratory Number:

12-029

Page 1 of 1

Company: INNOVEX				☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days)			
Project Number:							
Project Name: Montlake							
Project Manager: Glenn Hayman				☐ (other) _____			
Sampled by: Corn Poff							
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers		
1	H-18-18-5	12/5/18	0025	S	NWTPH-HCID		
2	-10		0045	S	NWTPH-Gx/BTEX		
3	-15		0100	S	NWTPH-Gx		
4	-20		0120	S	NWTPH-Dx (☐ Acid / SG Clean-up)		
5	-25		0140	S	Volatiles 8260C		
6	-30			S	Halogenated Volatiles 8260C		
7	H-18-18-6W	12/5/18	0145	W	EDB EPA 8011 (Waters Only)		
	Trip Blank	-	-	W	Semiivolatiles 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 + Dissolved		
					Total MTCA Metals		
					TCLP Metals		
					HEM (oil and grease) 1664A		
					TCLP CHROMIUM		
					% Moisture		

Comments/Special Instructions

Total $\frac{\text{field}}{\text{lab}}$ filter for metals.

Hold samples as noted above.

(X) Added 4/11/9. 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

December 7, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-050

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 6, 2018.

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 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

Case Narrative

Samples were collected on December 6, 2018 and received by the laboratory on December 6, 2018. 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.

Semivolatiles EPA 8270D/SIM Analysis

Sample H-20-18-GW had three surrogate recoveries out of control limits. Site history suggests that matrix interference was the cause. Due to insufficient sample available, re-extraction was not possible for confirmation.

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 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
Gasoline	ND	6.5	NWTPH-Gx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	57-129				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Gasoline	ND	5.0	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				96	93	57-129		



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
Gasoline	590	100	NWTPH-Gx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>105</i>	<i>66-117</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Gasoline	ND	100	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	82	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-058-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				80	78	66-117		



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
Diesel Range Organics	ND	30	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	ND	60	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>105</i>	<i>50-150</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>100</i>	<i>50-150</i>				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-028-26									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						84	85	50-150		



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
Diesel Range Organics	0.69	0.25	NWTPH-Dx	12-6-18	12-7-18	M
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-6-18	12-7-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-052-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	U1
Lube Oil	16.8	9.23	NA	NA	NA	NA	58	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				94	90	50-150		



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	0.080	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	0.023	0.0050	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	0.93	0.068	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Toluene	0.028	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	0.034	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	0.021	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	0.0051	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	0.012	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	0.0029	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	0.0035	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	0.0035	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	0.0059	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>83</i>	<i>71-132</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

VOLATILE ORGANICS 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:	MB1206S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	107	68-139				
Toluene-d8	100	79-128				
4-Bromofluorobenzene	98	71-132				



Date of Report: December 7, 2018
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 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0454	0.0460	0.0500	0.0500	91	92	53-141	1	17	
Benzene	0.0507	0.0509	0.0500	0.0500	101	102	70-130	0	15	
Trichloroethene	0.0456	0.0466	0.0500	0.0500	91	93	74-122	2	16	
Toluene	0.0478	0.0480	0.0500	0.0500	96	96	76-130	0	15	
Chlorobenzene	0.0441	0.0452	0.0500	0.0500	88	90	75-120	2	14	
Surrogate:										
Dibromofluoromethane					105	108	68-139			
Toluene-d8					101	101	79-128			
4-Bromofluorobenzene					97	100	71-132			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
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 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	160	100	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	10	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	450	4.0	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	19	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	7.5	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	



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VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	0.23	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	6.2	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	13	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	3.6	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	15	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	30	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	1.8	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	4.5	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	2.0	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	26	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	2.1	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>78-125</i>				



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 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-050-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	



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 Project: Montlake

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-050-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

VOLATILE ORGANICS 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	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1206W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1206W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	62-129	5	15	
Benzene	10.6	9.88	10.0	10.0	106	99	77-127	7	15	
Trichloroethene	10.7	10.2	10.0	10.0	107	102	70-120	5	15	
Toluene	10.7	10.2	10.0	10.0	107	102	82-123	5	15	
Chlorobenzene	9.82	9.49	10.0	10.0	98	95	79-120	3	15	
Surrogate:										
Dibromofluoromethane					94	93	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					96	95	78-125			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
n-Nitrosodimethylamine	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	0.40	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	0.20	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	0.20	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Naphthalene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
4-Chloroaniline	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	ND	0.040	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	0.20	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	ND	0.040	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	ND	0.40	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	70	19 - 103				
Phenol-d6	75	30 - 103				
Nitrobenzene-d5	73	27 - 105				
2-Fluorobiphenyl	76	36 - 102				
2,4,6-Tribromophenol	85	33 - 110				
Terphenyl-d14	86	38 - 108				



Date of Report: December 7, 2018
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 Laboratory Reference: 1812-050
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	0.33	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	0.17	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
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 Laboratory Reference: 1812-050
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	ND	0.33	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	87	19 - 103				
Phenol-d6	91	30 - 103				
Nitrobenzene-d5	90	27 - 105				
2-Fluorobiphenyl	89	36 - 102				
2,4,6-Tribromophenol	93	33 - 110				
Terphenyl-d14	98	38 - 108				



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, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD		SB	SBD			
Phenol	1.12	1.08	1.33	1.33		84	81	45 - 105	4	29
2-Chlorophenol	1.08	1.04	1.33	1.33		81	78	46 - 105	4	33
1,4-Dichlorobenzene	0.492	0.494	0.667	0.667		74	74	42 - 105	0	37
n-Nitroso-di-n-propylamine	0.499	0.486	0.667	0.667		75	73	45 - 105	3	26
1,2,4-Trichlorobenzene	0.528	0.525	0.667	0.667		79	79	45 - 105	1	32
4-Chloro-3-methylphenol	1.15	1.11	1.33	1.33		86	83	55 - 105	4	21
Acenaphthene	0.531	0.510	0.667	0.667		80	76	48 - 105	4	21
4-Nitrophenol	1.13	1.08	1.33	1.33		85	81	53 - 105	5	20
2,4-Dinitrotoluene	0.560	0.536	0.667	0.667		84	80	47 - 105	4	19
Pentachlorophenol	1.24	1.22	1.33	1.33		93	92	35 - 125	2	26
Pyrene	0.587	0.575	0.667	0.667		88	86	55 - 110	2	17
Surrogate:										
2-Fluorophenol						79	75	19 - 103		
Phenol-d6						83	79	30 - 103		
Nitrobenzene-d5						84	79	27 - 105		
2-Fluorobiphenyl						83	78	36 - 102		
2,4,6-Tribromophenol						84	81	33 - 110		
Terphenyl-d14						88	85	38 - 108		



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
n-Nitrosodimethylamine	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	14	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	2.7	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	2.7	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	2.7	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Naphthalene	1.1	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
4-Chloroaniline	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	2.5	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
1-Methylnaphthalene	1.8	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Hexachlorocyclopentadiene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	ND	2.7	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
2,4-Dinitrophenol	ND	14	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	ND	14	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	2.7	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	2.7	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	ND	14	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	2.7	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	2.7	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	14	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	ND	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	14	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	ND	14	EPA 8270D	12-6-18	12-6-18	
Pyrene	0.28	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	ND	2.7	EPA 8270D	12-6-18	12-6-18	
bis(2-Ethylhexyl)adipate	ND	14	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	ND	14	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	2.7	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.071	EPA 8270D/SIM	12-6-18	12-6-18	U1
Benzo(j,k)fluoranthene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	ND	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	2.5	12 - 80				Q
Phenol-d6	2.7	10 - 82				Q
Nitrobenzene-d5	71	30 - 103				
2-Fluorobiphenyl	70	33 - 103				
2,4,6-Tribromophenol	15	20 - 121				Q
Terphenyl-d14	75	32 - 113				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	5.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Chloroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	31	12 - 80				
Phenol-d6	25	10 - 82				
Nitrobenzene-d5	57	30 - 103				
2-Fluorobiphenyl	57	33 - 103				
2,4,6-Tribromophenol	59	20 - 121				
Terphenyl-d14	73	32 - 113				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-044-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	11.7	11.1	39.1	37.4	ND	30	30	20 - 102	5	34	
2-Chlorophenol	22.4	22.8	39.1	37.4	ND	57	61	35 - 89	2	37	
1,4-Dichlorobenzene	11.4	12.0	19.6	18.7	ND	58	64	25 - 85	5	40	
n-Nitroso-di-n-propylamine	12.8	13.0	19.6	18.7	ND	65	70	23 - 113	2	36	
1,2,4-Trichlorobenzene	13.6	14.0	19.6	18.7	ND	69	75	31 - 88	3	40	
4-Chloro-3-methylphenol	26.8	24.9	39.1	37.4	ND	69	67	37 - 100	7	37	
Acenaphthene	14.6	14.7	19.6	18.7	ND	74	79	39 - 92	1	32	
4-Nitrophenol	11.2	11.8	39.1	37.4	ND	29	32	20 - 125	5	40	
2,4-Dinitrotoluene	14.7	13.9	19.6	18.7	ND	75	74	31 - 100	6	32	
Pentachlorophenol	19.2	20.3	39.1	37.4	ND	49	54	20 - 136	6	40	
Pyrene	16.0	15.4	19.6	18.7	ND	82	82	44 - 95	4	33	
Surrogate:											
2-Fluorophenol						34	36	12 - 80			
Phenol-d6						28	29	10 - 82			
Nitrobenzene-d5						67	75	30 - 103			
2-Fluorobiphenyl						76	85	33 - 103			
2,4,6-Tribromophenol						79	82	20 - 121			
Terphenyl-d14						81	85	32 - 113			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
Aroclor 1016	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.060	EPA 8082A	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	84	39-130				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	89	39-130				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-050-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.312	0.326	0.500	0.500	ND	62	65	45-118	4	15	
Surrogate:											
DCB						71	78	39-130			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-10					
Laboratory ID:	12-050-02					
Arsenic	ND	12	EPA 6010D	12-6-18	12-6-18	
Barium	130	3.0	EPA 6010D	12-6-18	12-6-18	
Cadmium	ND	0.60	EPA 6010D	12-6-18	12-6-18	
Chromium	58	0.60	EPA 6010D	12-6-18	12-6-18	
Lead	ND	6.0	EPA 6010D	12-6-18	12-6-18	
Mercury	ND	0.30	EPA 7471B	12-7-18	12-7-18	
Selenium	ND	12	EPA 6010D	12-6-18	12-6-18	
Silver	ND	1.2	EPA 6010D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206SM2					
Arsenic	ND	10	EPA 6010D	12-6-18	12-6-18	
Barium	ND	2.5	EPA 6010D	12-6-18	12-6-18	
Cadmium	ND	0.50	EPA 6010D	12-6-18	12-6-18	
Chromium	ND	0.50	EPA 6010D	12-6-18	12-6-18	
Lead	ND	5.0	EPA 6010D	12-6-18	12-6-18	
Selenium	ND	10	EPA 6010D	12-6-18	12-6-18	
Silver	ND	1.0	EPA 6010D	12-6-18	12-6-18	

Laboratory ID:	MB1207S1					
Mercury	ND	0.25	EPA 7471B	12-7-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-050-02							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	110	95.5	NA	NA	NA	14	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	47.7	43.3	NA	NA	NA	10	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	12-050-02							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	12-050-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	90.1	87.9	100	100	ND	90	88	75-125	3	20
Barium	210	223	100	100	110	100	113	75-125	6	20
Cadmium	49.2	45.2	50.0	50.0	ND	98	90	75-125	8	20
Chromium	138	148	100	100	47.7	91	101	75-125	7	20
Lead	252	228	250	250	ND	101	91	75-125	10	20
Selenium	85.7	87.9	100	100	ND	86	88	75-125	2	20
Silver	20.6	20.8	25.0	25.0	ND	82	83	75-125	1	20

Laboratory ID:	12-050-02									
Mercury	0.522	0.495	0.500	0.500	0.0233	100	94	80-120	5	20



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

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Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
Arsenic	580	33	EPA 200.8	12-7-18	12-7-18	
Barium	11000	560	EPA 200.8	12-7-18	12-7-18	
Cadmium	8.2	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	4500	1100	EPA 200.8	12-7-18	12-7-18	
Lead	450	22	EPA 200.8	12-7-18	12-7-18	
Mercury	0.60	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	46	11	EPA 200.8	12-7-18	12-7-18	
Silver	ND	11	EPA 200.8	12-7-18	12-7-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207WM1					
Arsenic	ND	3.3	EPA 200.8	12-7-18	12-7-18	
Barium	ND	28	EPA 200.8	12-7-18	12-7-18	
Cadmium	ND	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	ND	11	EPA 200.8	12-7-18	12-7-18	
Lead	ND	1.1	EPA 200.8	12-7-18	12-7-18	
Selenium	ND	5.6	EPA 200.8	12-7-18	12-7-18	
Silver	ND	11	EPA 200.8	12-7-18	12-7-18	

Laboratory ID:	MB1207W1					
Mercury	ND	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-06							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	ND	ND	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	ND	ND	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	12-052-01							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	11-213-06									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	219	229	222	222	ND	99	103	75-125	4	20
Barium	232	232	222	222	ND	104	105	75-125	0	20
Cadmium	213	224	222	222	ND	96	101	75-125	5	20
Chromium	205	211	222	222	ND	92	95	75-125	3	20
Lead	208	211	222	222	ND	94	95	75-125	2	20
Selenium	215	228	222	222	ND	97	103	75-125	6	20
Silver	226	225	222	222	ND	102	101	75-125	0	20

Laboratory ID:	12-052-01									
Mercury	11.5	11.4	12.5	12.5	ND	92	91	75-125	1	20



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Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-20-18-GW					
Laboratory ID:	12-050-06					
Arsenic	32	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	79	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	ND	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	ND	10	EPA 200.8	12-6-18	12-7-18	
Lead	ND	1.0	EPA 200.8	12-6-18	12-7-18	
Mercury	ND	0.50	EPA 7470A	12-6-18	12-7-18	
Selenium	ND	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	ND	10	EPA 200.8	12-6-18	12-7-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-050
 Project: Montlake

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206F1					
Arsenic	ND	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	ND	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	ND	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	ND	10	EPA 200.8	12-6-18	12-7-18	
Lead	ND	1.0	EPA 200.8	12-6-18	12-7-18	
Selenium	ND	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	ND	10	EPA 200.8	12-6-18	12-7-18	

Laboratory ID:	MB1206F1					
Mercury	ND	0.50	EPA 7470A	12-6-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-050-06							
	ORIG	DUP						
Arsenic	32.4	30.6	NA	NA	NA	NA	6	20
Barium	78.8	79.4	NA	NA	NA	NA	1	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-052-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	12-050-06									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	111	111	80.0	80.0	32.4	99	98	75-125	1	20
Barium	157	151	80.0	80.0	78.8	97	91	75-125	4	20
Cadmium	79.0	74.6	80.0	80.0	ND	99	93	75-125	6	20
Chromium	77.2	73.6	80.0	80.0	ND	97	92	75-125	5	20
Lead	68.4	65.6	80.0	80.0	ND	86	82	75-125	4	20
Selenium	83.0	82.2	80.0	80.0	ND	104	103	75-125	1	20
Silver	75.6	74.0	80.0	80.0	ND	95	93	75-125	2	20

Laboratory ID:	12-052-01									
Mercury	11.5	11.6	12.5	12.5	ND	92	92	75-125	0	20



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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

% MOISTURE

Date Analyzed: 12-6-18

Client ID	Lab ID	% Moisture
H-20-18-10	12-050-02	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





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)

Laboratory Number: **12-050**

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☐ (other)

Company: **ENVONEX**
Project Number:
Project Name: **Mountlake**
Project Manager: **Glen Hagan**
Sampled by: **Colin Duffy**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	H-20-18-5	12/6/18	0212	S
2	-10	12/6/18	0220	S
3	-15	12/6/18	0230	S
4	-20	12/6/18	0242	S
5	-25	12/6/18	0305	S
6	-30	12/6/18	0320	S
7	Trip Blank	-	-	W1

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	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	ITEM	12/6/18	0620	Total/Dissolved metals - lab filter
<i>[Signature]</i>	ITEM	12/6/18	0650	Held samples shown above
<i>[Signature]</i>	OSR	12.6.18	6:54	

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 7, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-051

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 6, 2018.

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 "D. Baumeister", 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

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

Case Narrative

Samples were collected on December 5 and 6, 2018 and received by the laboratory on December 6, 2018. 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

Some MTCA Method A cleanup levels are non-achievable for samples H-19-18-5 and H-19-18-15 due to the necessary dilution of the samples.

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 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
Gasoline	3100	110	NWTPH-Gx	12-6-18	12-7-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	---	57-129				S
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
Gasoline	5600	110	NWTPH-Gx	12-6-18	12-7-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	---	57-129				S
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
Gasoline	ND	12	NWTPH-Gx	12-6-18	12-7-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	57-129				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Gasoline	ND	5.0	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	85	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-056-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				96	93	57-129		



Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
Gasoline	110000	5000	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	106	66-117				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Gasoline	ND	100	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	82	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-058-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				80	78	66-117		



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 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
Diesel Range Organics	ND	1500	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	6000	550	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
Diesel Range Organics	ND	1100	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	82	59	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
Diesel Range Organics	ND	72	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	ND	58	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>100</i>	<i>50-150</i>				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-028-26									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						84	85	50-150		



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 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
Diesel Range Organics	ND	6.4	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	0.38	0.27	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-052-01									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	U1
Lube Oil	16.8	9.23	NA	NA		NA	NA	58	NA	
Surrogate:										
o-Terphenyl										
						94	90	50-150		



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VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
Dichlorodifluoromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	1.2	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.59	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.59	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Benzene	0.27	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.59	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	0.59	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.12	EPA 8260C	12-6-18	12-6-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
1,1,2-Trichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	2.7	0.12	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	18	0.24	EPA 8260C	12-6-18	12-6-18	
o-Xylene	5.8	0.12	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	0.74	0.12	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	1.5	0.12	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	6.1	0.12	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	21	0.12	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	0.51	0.12	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	1.2	0.12	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	2.7	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Naphthalene	4.4	0.12	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>71-132</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
Dichlorodifluoromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	0.52	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.26	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.26	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Benzene	1.3	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.26	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Toluene	7.3	2.6	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.052	EPA 8260C	12-6-18	12-6-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
1,1,2-Trichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	17	0.52	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	65	1.0	EPA 8260C	12-6-18	12-6-18	
o-Xylene	15	0.52	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	3.1	0.052	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	8.6	0.52	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	19	0.52	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	0.060	0.052	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	61	0.52	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	1.3	0.052	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	2.3	0.052	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	7.4	0.52	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Naphthalene	11	0.52	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>122</i>	<i>71-132</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	0.054	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	0.0020	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	0.013	0.0051	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	0.0050	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Toluene	0.017	0.0051	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	



Date of Report: December 7, 2018
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 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	0.023	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	0.10	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	0.023	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	0.0059	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	0.012	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	0.031	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	0.082	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	0.0030	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	0.0038	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	0.0074	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Naphthalene	0.0063	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>71-132</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

VOLATILE ORGANICS 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:	MB1206S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	



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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-132</i>				



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 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0454	0.0460	0.0500	0.0500	91	92	53-141	1	17	
Benzene	0.0507	0.0509	0.0500	0.0500	101	102	70-130	0	15	
Trichloroethene	0.0456	0.0466	0.0500	0.0500	91	93	74-122	2	16	
Toluene	0.0478	0.0480	0.0500	0.0500	96	96	76-130	0	15	
Chlorobenzene	0.0441	0.0452	0.0500	0.0500	88	90	75-120	2	14	
Surrogate:										
Dibromofluoromethane					105	108	68-139			
Toluene-d8					101	101	79-128			
4-Bromofluorobenzene					97	100	71-132			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
Dichlorodifluoromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1000	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	200	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	260	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1000	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5000	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1000	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	200	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1000	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1000	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5000	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	200	EPA 8260C	12-6-18	12-6-18	
Benzene	760	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1000	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	200	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2000	EPA 8260C	12-6-18	12-6-18	
Toluene	2000	1000	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	200	EPA 8260C	12-6-18	12-6-18	



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 Samples Submitted: December 6, 2018
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
1,1,2-Trichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2000	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	2200	200	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	9600	400	EPA 8260C	12-6-18	12-6-18	
o-Xylene	2400	200	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	200	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1300	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	420	200	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	830	200	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	200	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	2100	200	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	7000	200	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	200	200	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	520	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1300	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	200	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1400	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	270	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>89</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-051-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-051-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

VOLATILE ORGANICS 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	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1206W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB1206W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	62-129	5	15	
Benzene	10.6	9.88	10.0	10.0	106	99	77-127	7	15	
Trichloroethene	10.7	10.2	10.0	10.0	107	102	70-120	5	15	
Toluene	10.7	10.2	10.0	10.0	107	102	82-123	5	15	
Chlorobenzene	9.82	9.49	10.0	10.0	98	95	79-120	3	15	
Surrogate:										
Dibromofluoromethane					94	93	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					96	95	78-125			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
n-Nitrosodimethylamine	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Pyridine	ND	37	EPA 8270D	12-6-18	12-7-18	
Phenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Aniline	ND	18	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethyl)ether	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2-Chlorophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,3-Dichlorobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,4-Dichlorobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Benzyl alcohol	ND	18	EPA 8270D	12-6-18	12-7-18	
1,2-Dichlorobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	3.7	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	3.7	EPA 8270D	12-6-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	3.7	EPA 8270D	12-6-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Hexachloroethane	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Nitrobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Isophorone	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2-Nitrophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,4-Dimethylphenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,4-Dichlorophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,2,4-Trichlorobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Naphthalene	6.7	3.7	EPA 8270D	12-6-18	12-7-18	
4-Chloroaniline	ND	18	EPA 8270D	12-6-18	12-7-18	
Hexachlorobutadiene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
4-Chloro-3-methylphenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2-Methylnaphthalene	1.2	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	0.58	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,4,6-Trichlorophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,3-Dichloroaniline	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,4,5-Trichlorophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2-Chloronaphthalene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2-Nitroaniline	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,4-Dinitrobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Dimethylphthalate	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,3-Dinitrobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,6-Dinitrotoluene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,2-Dinitrobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Acenaphthylene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	ND	3.7	EPA 8270D	12-6-18	12-7-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
2,4-Dinitrophenol	ND	18	EPA 8270D	12-6-18	12-7-18	
Acenaphthene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,4-Dinitrotoluene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Dibenzofuran	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Diethylphthalate	ND	18	EPA 8270D	12-6-18	12-7-18	
4-Chlorophenyl-phenylether	ND	3.7	EPA 8270D	12-6-18	12-7-18	
4-Nitroaniline	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Fluorene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	18	EPA 8270D	12-6-18	12-7-18	
n-Nitrosodiphenylamine	ND	3.7	EPA 8270D	12-6-18	12-7-18	
1,2-Diphenylhydrazine	ND	3.7	EPA 8270D	12-6-18	12-7-18	
4-Bromophenyl-phenylether	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Hexachlorobenzene	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Pentachlorophenol	ND	18	EPA 8270D	12-6-18	12-7-18	
Phenanthrene	0.29	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	ND	3.7	EPA 8270D	12-6-18	12-7-18	
Di-n-butylphthalate	ND	18	EPA 8270D	12-6-18	12-7-18	
Fluoranthene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	ND	37	EPA 8270D	12-6-18	12-7-18	
Pyrene	0.22	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	ND	18	EPA 8270D	12-6-18	12-7-18	
bis(2-Ethylhexyl)adipate	ND	18	EPA 8270D	12-6-18	12-7-18	
3,3'-Dichlorobenzidine	ND	18	EPA 8270D	12-6-18	12-7-18	
Benzo[a]anthracene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	0.29	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	18	EPA 8270D	12-6-18	12-7-18	
Di-n-octylphthalate	ND	18	EPA 8270D	12-6-18	12-7-18	
Benzo[b]fluoranthene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	68	19 - 103				
Phenol-d6	92	30 - 103				
Nitrobenzene-d5	86	27 - 105				
2-Fluorobiphenyl	79	36 - 102				
2,4,6-Tribromophenol	64	33 - 110				
Terphenyl-d14	82	38 - 108				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
n-Nitrosodimethylamine	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Pyridine	ND	0.40	EPA 8270D	12-6-18	12-7-18	
Phenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Aniline	ND	0.20	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethyl)ether	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2-Chlorophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,3-Dichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,4-Dichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Benzyl alcohol	ND	0.20	EPA 8270D	12-6-18	12-7-18	
1,2-Dichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	0.040	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	0.040	EPA 8270D	12-6-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.040	EPA 8270D	12-6-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Hexachloroethane	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Nitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Isophorone	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2-Nitrophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,4-Dimethylphenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,4-Dichlorophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Naphthalene	3.7	0.40	EPA 8270D	12-6-18	12-7-18	
4-Chloroaniline	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Hexachlorobutadiene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
4-Chloro-3-methylphenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2-Methylnaphthalene	1.3	0.040	EPA 8270D	12-6-18	12-7-18	
1-Methylnaphthalene	0.60	0.040	EPA 8270D	12-6-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,4,6-Trichlorophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,3-Dichloroaniline	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,4,5-Trichlorophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2-Chloronaphthalene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2-Nitroaniline	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,4-Dinitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Dimethylphthalate	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,3-Dinitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,6-Dinitrotoluene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,2-Dinitrobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Acenaphthylene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	ND	0.040	EPA 8270D	12-6-18	12-7-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Acenaphthene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,4-Dinitrotoluene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Dibenzofuran	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Diethylphthalate	ND	0.20	EPA 8270D	12-6-18	12-7-18	
4-Chlorophenyl-phenylether	ND	0.040	EPA 8270D	12-6-18	12-7-18	
4-Nitroaniline	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Fluorene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	12-6-18	12-7-18	
n-Nitrosodiphenylamine	ND	0.040	EPA 8270D	12-6-18	12-7-18	
1,2-Diphenylhydrazine	ND	0.040	EPA 8270D	12-6-18	12-7-18	
4-Bromophenyl-phenylether	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Hexachlorobenzene	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Pentachlorophenol	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Phenanthrene	0.017	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	ND	0.040	EPA 8270D	12-6-18	12-7-18	
Di-n-butylphthalate	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Fluoranthene	0.012	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	ND	0.40	EPA 8270D	12-6-18	12-7-18	
Pyrene	0.014	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	ND	0.20	EPA 8270D	12-6-18	12-7-18	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	12-6-18	12-7-18	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Benzo[a]anthracene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Di-n-octylphthalate	ND	0.20	EPA 8270D	12-6-18	12-7-18	
Benzo[b]fluoranthene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	70	19 - 103				
Phenol-d6	73	30 - 103				
Nitrobenzene-d5	90	27 - 105				
2-Fluorobiphenyl	80	36 - 102				
2,4,6-Tribromophenol	79	33 - 110				
Terphenyl-d14	79	38 - 108				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
n-Nitrosodimethylamine	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	0.38	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	0.19	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	0.19	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Naphthalene	0.46	0.038	EPA 8270D	12-6-18	12-6-18	
4-Chloroaniline	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	0.16	0.038	EPA 8270D	12-6-18	12-6-18	
1-Methylnaphthalene	0.067	0.038	EPA 8270D	12-6-18	12-6-18	
Hexachlorocyclopentadiene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	ND	0.038	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	0.19	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	ND	0.038	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	ND	0.38	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	ND	0.19	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	0.19	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	56	19 - 103				
Phenol-d6	64	30 - 103				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	68	36 - 102				
2,4,6-Tribromophenol	76	33 - 110				
Terphenyl-d14	77	38 - 108				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	0.33	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	0.17	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	ND	0.033	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	ND	0.33	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	87	19 - 103				
Phenol-d6	91	30 - 103				
Nitrobenzene-d5	90	27 - 105				
2-Fluorobiphenyl	89	36 - 102				
2,4,6-Tribromophenol	93	33 - 110				
Terphenyl-d14	98	38 - 108				



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, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD		SB	SBD			
Phenol	1.12	1.08	1.33	1.33		84	81	45 - 105	4	29
2-Chlorophenol	1.08	1.04	1.33	1.33		81	78	46 - 105	4	33
1,4-Dichlorobenzene	0.492	0.494	0.667	0.667		74	74	42 - 105	0	37
n-Nitroso-di-n-propylamine	0.499	0.486	0.667	0.667		75	73	45 - 105	3	26
1,2,4-Trichlorobenzene	0.528	0.525	0.667	0.667		79	79	45 - 105	1	32
4-Chloro-3-methylphenol	1.15	1.11	1.33	1.33		86	83	55 - 105	4	21
Acenaphthene	0.531	0.510	0.667	0.667		80	76	48 - 105	4	21
4-Nitrophenol	1.13	1.08	1.33	1.33		85	81	53 - 105	5	20
2,4-Dinitrotoluene	0.560	0.536	0.667	0.667		84	80	47 - 105	4	19
Pentachlorophenol	1.24	1.22	1.33	1.33		93	92	35 - 125	2	26
Pyrene	0.587	0.575	0.667	0.667		88	86	55 - 110	2	17
Surrogate:										
2-Fluorophenol						79	75	19 - 103		
Phenol-d6						83	79	30 - 103		
Nitrobenzene-d5						84	79	27 - 105		
2-Fluorobiphenyl						83	78	36 - 102		
2,4,6-Tribromophenol						84	81	33 - 110		
Terphenyl-d14						88	85	38 - 108		



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
n-Nitrosodimethylamine	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	7.8	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	1.6	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	1.6	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.6	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Naphthalene	280	16	EPA 8270D	12-6-18	12-7-18	
4-Chloroaniline	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	48	1.6	EPA 8270D	12-6-18	12-6-18	
1-Methylnaphthalene	21	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachlorocyclopentadiene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	ND	1.6	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
2,4-Dinitrophenol	ND	7.8	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	ND	7.8	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	1.6	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	1.6	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Fluorene	0.17	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	ND	7.8	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	1.6	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	1.6	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	7.8	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	0.23	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	ND	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	7.8	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	ND	7.8	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	ND	1.6	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	7.8	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	0.025	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	0.035	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	14	7.8	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	1.6	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	0.029	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo(j,k)fluoranthene	ND	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	0.020	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	0.017	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	ND	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	0.022	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	32	12 - 80				
Phenol-d6	28	10 - 82				
Nitrobenzene-d5	69	30 - 103				
2-Fluorobiphenyl	79	33 - 103				
2,4,6-Tribromophenol	65	20 - 121				
Terphenyl-d14	89	32 - 113				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1206W2						
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Pyridine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Phenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Aniline	ND	5.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Isophorone	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Chloroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Fluorene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Pyrene	ND	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	31	12 - 80				
Phenol-d6	25	10 - 82				
Nitrobenzene-d5	57	30 - 103				
2-Fluorobiphenyl	57	33 - 103				
2,4,6-Tribromophenol	59	20 - 121				
Terphenyl-d14	73	32 - 113				



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, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 MS/MSD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-044-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	11.7	11.1	39.1	37.4	ND	30	30	20 - 102	5	34	
2-Chlorophenol	22.4	22.8	39.1	37.4	ND	57	61	35 - 89	2	37	
1,4-Dichlorobenzene	11.4	12.0	19.6	18.7	ND	58	64	25 - 85	5	40	
n-Nitroso-di-n-propylamine	12.8	13.0	19.6	18.7	ND	65	70	23 - 113	2	36	
1,2,4-Trichlorobenzene	13.6	14.0	19.6	18.7	ND	69	75	31 - 88	3	40	
4-Chloro-3-methylphenol	26.8	24.9	39.1	37.4	ND	69	67	37 - 100	7	37	
Acenaphthene	14.6	14.7	19.6	18.7	ND	74	79	39 - 92	1	32	
4-Nitrophenol	11.2	11.8	39.1	37.4	ND	29	32	20 - 125	5	40	
2,4-Dinitrotoluene	14.7	13.9	19.6	18.7	ND	75	74	31 - 100	6	32	
Pentachlorophenol	19.2	20.3	39.1	37.4	ND	49	54	20 - 136	6	40	
Pyrene	16.0	15.4	19.6	18.7	ND	82	82	44 - 95	4	33	
Surrogate:											
2-Fluorophenol						34	36	12 - 80			
Phenol-d6						28	29	10 - 82			
Nitrobenzene-d5						67	75	30 - 103			
2-Fluorobiphenyl						76	85	33 - 103			
2,4,6-Tribromophenol						79	82	20 - 121			
Terphenyl-d14						81	85	32 - 113			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
Aroclor 1016	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.055	EPA 8082A	12-6-18	12-6-18	
Surrogate: DCB	Percent Recovery 60	Control Limits 39-130				
Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
Aroclor 1016	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.059	EPA 8082A	12-6-18	12-6-18	
Surrogate: DCB	Percent Recovery 61	Control Limits 39-130				
Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
Aroclor 1016	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.058	EPA 8082A	12-6-18	12-6-18	
Surrogate: DCB	Percent Recovery 72	Control Limits 39-130				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	89	39-130				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-050-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.312	0.326	0.500	0.500	ND	62	65	45-118	4	15	
Surrogate:											
DCB						71	78	39-130			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
Aroclor 1016	ND	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.074	EPA 8082A	12-6-18	12-6-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>98</i>	<i>44-144</i>				



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-6-18	12-6-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	112	44-144				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1206W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.497	0.504	0.500	0.500	N/A	99	101	71-131	1	12	
Surrogate:											
DCB						116	119	44-144			



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-5					
Laboratory ID:	12-051-01					
Arsenic	ND	11	EPA 6010D	12-6-18	12-6-18	
Barium	100	2.8	EPA 6010D	12-6-18	12-6-18	
Cadmium	ND	0.55	EPA 6010D	12-6-18	12-6-18	
Chromium	35	0.55	EPA 6010D	12-6-18	12-6-18	
Lead	13	5.5	EPA 6010D	12-6-18	12-6-18	
Mercury	ND	0.28	EPA 7471B	12-7-18	12-7-18	
Selenium	ND	11	EPA 6010D	12-6-18	12-6-18	
Silver	ND	1.1	EPA 6010D	12-6-18	12-6-18	

Client ID:	H-19-18-15					
Laboratory ID:	12-051-03					
Arsenic	ND	12	EPA 6010D	12-6-18	12-6-18	
Barium	76	3.0	EPA 6010D	12-6-18	12-6-18	
Cadmium	ND	0.59	EPA 6010D	12-6-18	12-6-18	
Chromium	53	0.59	EPA 6010D	12-6-18	12-6-18	
Lead	8.2	5.9	EPA 6010D	12-6-18	12-6-18	
Mercury	ND	0.30	EPA 7471B	12-7-18	12-7-18	
Selenium	ND	12	EPA 6010D	12-6-18	12-6-18	
Silver	ND	1.2	EPA 6010D	12-6-18	12-6-18	

Client ID:	H-19-18-25					
Laboratory ID:	12-051-05					
Arsenic	ND	12	EPA 6010D	12-6-18	12-6-18	
Barium	57	2.9	EPA 6010D	12-6-18	12-6-18	
Cadmium	ND	0.58	EPA 6010D	12-6-18	12-6-18	
Chromium	49	0.58	EPA 6010D	12-6-18	12-6-18	
Lead	6.0	5.8	EPA 6010D	12-6-18	12-6-18	
Mercury	ND	0.29	EPA 7471B	12-7-18	12-7-18	
Selenium	ND	12	EPA 6010D	12-6-18	12-6-18	
Silver	ND	1.2	EPA 6010D	12-6-18	12-6-18	



Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206SM2					
Arsenic	ND	10	EPA 6010D	12-6-18	12-6-18	
Barium	ND	2.5	EPA 6010D	12-6-18	12-6-18	
Cadmium	ND	0.50	EPA 6010D	12-6-18	12-6-18	
Chromium	ND	0.50	EPA 6010D	12-6-18	12-6-18	
Lead	ND	5.0	EPA 6010D	12-6-18	12-6-18	
Selenium	ND	10	EPA 6010D	12-6-18	12-6-18	
Silver	ND	1.0	EPA 6010D	12-6-18	12-6-18	

Laboratory ID:	MB1207S1					
Mercury	ND	0.25	EPA 7471B	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-050-02									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Barium	110	95.5	NA	NA		NA	NA	14	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	47.7	43.3	NA	NA		NA	NA	10	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Silver	ND	ND	NA	NA		NA	NA	NA	20	

Laboratory ID:	12-050-02									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	12-050-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	90.1	87.9	100	100	ND	90	88	75-125	3	20
Barium	210	223	100	100	110	100	113	75-125	6	20
Cadmium	49.2	45.2	50.0	50.0	ND	98	90	75-125	8	20
Chromium	138	148	100	100	47.7	91	101	75-125	7	20
Lead	252	228	250	250	ND	101	91	75-125	10	20
Selenium	85.7	87.9	100	100	ND	86	88	75-125	2	20
Silver	20.6	20.8	25.0	25.0	ND	82	83	75-125	1	20

Laboratory ID:	12-050-02									
Mercury	0.522	0.495	0.500	0.500	0.0233	100	94	80-120	5	20



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

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Date of Report: December 7, 2018
 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
Arsenic	570	33	EPA 200.8	12-7-18	12-7-18	
Barium	9800	560	EPA 200.8	12-7-18	12-7-18	
Cadmium	12	8.9	EPA 200.8	12-7-18	12-7-18	
Chromium	4800	1100	EPA 200.8	12-7-18	12-7-18	
Lead	800	22	EPA 200.8	12-7-18	12-7-18	
Mercury	1.8	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	76	22	EPA 200.8	12-7-18	12-7-18	
Silver	ND	11	EPA 200.8	12-7-18	12-7-18	



Date of Report: December 7, 2018
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 Project: Montlake

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207WM1					
Arsenic	ND	3.3	EPA 200.8	12-7-18	12-7-18	
Barium	ND	28	EPA 200.8	12-7-18	12-7-18	
Cadmium	ND	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	ND	11	EPA 200.8	12-7-18	12-7-18	
Lead	ND	1.1	EPA 200.8	12-7-18	12-7-18	
Selenium	ND	5.6	EPA 200.8	12-7-18	12-7-18	
Silver	ND	11	EPA 200.8	12-7-18	12-7-18	

Laboratory ID:	MB1207W1					
Mercury	ND	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-06							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	ND	ND	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	ND	ND	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

Laboratory ID:	12-052-01							
Mercury	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	11-213-06									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	219	229	222	222	ND	99	103	75-125	4	20
Barium	232	232	222	222	ND	104	105	75-125	0	20
Cadmium	213	224	222	222	ND	96	101	75-125	5	20
Chromium	205	211	222	222	ND	92	95	75-125	3	20
Lead	208	211	222	222	ND	94	95	75-125	2	20
Selenium	215	228	222	222	ND	97	103	75-125	6	20
Silver	226	225	222	222	ND	102	101	75-125	0	20

Laboratory ID:	12-052-01									
Mercury	11.5	11.4	12.5	12.5	ND	92	91	75-125	1	20



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 Samples Submitted: December 6, 2018
 Laboratory Reference: 1812-051
 Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-19-18-GW					
Laboratory ID:	12-051-06					
Arsenic	3.9	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	37	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	ND	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	ND	10	EPA 200.8	12-6-18	12-7-18	
Lead	1.2	1.0	EPA 200.8	12-6-18	12-7-18	
Mercury	ND	0.50	EPA 7470A	12-6-18	12-7-18	
Selenium	ND	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	ND	10	EPA 200.8	12-6-18	12-7-18	



Date of Report: December 7, 2018
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 Project: Montlake

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206F1					
Arsenic	ND	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	ND	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	ND	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	ND	10	EPA 200.8	12-6-18	12-7-18	
Lead	ND	1.0	EPA 200.8	12-6-18	12-7-18	
Selenium	ND	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	ND	10	EPA 200.8	12-6-18	12-7-18	

Laboratory ID:	MB1206F1					
Mercury	ND	0.50	EPA 7470A	12-6-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-050-06							
	ORIG	DUP						
Arsenic	32.4	30.6	NA	NA	NA	NA	6	20
Barium	78.8	79.4	NA	NA	NA	NA	1	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-052-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	12-050-06									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	111	111	80.0	80.0	32.4	99	98	75-125	1	20
Barium	157	151	80.0	80.0	78.8	97	91	75-125	4	20
Cadmium	79.0	74.6	80.0	80.0	ND	99	93	75-125	6	20
Chromium	77.2	73.6	80.0	80.0	ND	97	92	75-125	5	20
Lead	68.4	65.6	80.0	80.0	ND	86	82	75-125	4	20
Selenium	83.0	82.2	80.0	80.0	ND	104	103	75-125	1	20
Silver	75.6	74.0	80.0	80.0	ND	95	93	75-125	2	20

Laboratory ID:	12-052-01									
Mercury	11.5	11.6	12.5	12.5	ND	92	92	75-125	0	20



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Laboratory Reference: 1812-051
Project: Montlake

% MOISTURE

Date Analyzed: 12-6-18

Client ID	Lab ID	% Moisture
H-19-18-5	12-051-01	9
H-19-18-15	12-051-03	16
H-19-18-25	12-051-05	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





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Chain of Custody

Page 1 of 1

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☐

(other)

Company: **ENVIVEX**
Project Number:
Project Name: **Mentlake**
Project Manager: **Steven Hayman**
Sampled by: **Corn Duffy**

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

Laboratory Number:

12-051

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
1	H-19-18-5	12/5/18	2340	S	5	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
2	-10	12/5/18	2348	S	5	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
3	-15	12/6/18	0000	S	5	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
4	-20	12/6/18	0015	S	5	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
5	-25	12/6/18	0034	S	5	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
6	H-19-18-GW	12/6/18	0111	W	12	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
7	Trip Blank	-	-	W	1	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	

Signature

Company

Date

Time

Comments/Special Instructions

GW for total & dissolved-lab filter

Hold samples show above

Added 12/6/18 BCL

Letting TA

ENV

ENV

ENV

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 10, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-073

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 7, 2018.

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 line 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 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

Case Narrative

Samples were collected on December 6, 2018 and received by the laboratory on December 7, 2018. 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

Method 5035A states that for low-level VOC analysis the purge-and-trap system employed must be capable of agitating the sealed sample during the purging process. The purge-and-trap system that OnSite Environmental utilizes for the analysis of low-level VOCs has a stir motor that spins a magnetic stir bar within the sample thereby agitating the sample and providing more efficient purging. Method 5035A VOA vials containing stir bars were not provided for sample H-21-18-21. Therefore, one of the VOA vials without a stir bar was used for the low-level VOC 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: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
Gasoline	ND	4.8	NWTPH-Gx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	77	57-129				
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
Gasoline	ND	5.8	NWTPH-Gx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	85	57-129				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Gasoline	ND	5.0	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	83	57-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-073-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				77	73	57-129		



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
Gasoline	1700	100	NWTPH-Gx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	66-117				
Client ID:	H-22-18-GW					
Laboratory ID:	12-073-07					
Gasoline	1800	100	NWTPH-Gx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	66-117				



Date of Report: December 10, 2018
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 Project: Montlake

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Gasoline	ND	100	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	84	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-072-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				80	81	66-117		



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
Diesel Range Organics	ND	27	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	ND	54	NWTPH-Dx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
Diesel Range Organics	ND	28	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	ND	56	NWTPH-Dx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	74	50-150				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Diesel Range Organics	ND	25	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-065-01									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil	84.0	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl										
						91	95	50-150		



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
Diesel Range Organics	ND	0.31	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	ND	0.50	NWTPH-Dx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	SB1207W1									
	ORIG	DUP								
Diesel Fuel #2	0.765	0.667	NA	NA		NA	NA	14	NA	
Surrogate:										
o-Terphenyl						92	83	50-150		



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
Dichlorodifluoromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	0.0072	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.0014	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-132</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	0.010	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.0021	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-132</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS 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:	MB1207S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	0.010	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
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 Laboratory Reference: 1812-073
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VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1207S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>68-139</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>79-128</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>71-132</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery	RPD	RPD	Flags
					Recovery		Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB1207S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0424	0.0420	0.0500	0.0500	85	84	53-141	1	17	
Benzene	0.0478	0.0474	0.0500	0.0500	96	95	70-130	1	15	
Trichloroethene	0.0485	0.0461	0.0500	0.0500	97	92	74-122	5	16	
Toluene	0.0486	0.0478	0.0500	0.0500	97	96	76-130	2	15	
Chlorobenzene	0.0450	0.0443	0.0500	0.0500	90	89	75-120	2	14	
Surrogate:										
Dibromofluoromethane					108	107	68-139			
Toluene-d8					100	97	79-128			
4-Bromofluorobenzene					101	98	71-132			



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	37	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	6.5	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	5.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	25	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Benzene	30	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	7.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	12-7-18	12-7-18	
Toluene	26	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
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 Project: Montlake

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	10	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	81	1.0	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	220	2.0	EPA 8260C	12-7-18	12-7-18	
o-Xylene	77	1.0	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	7.7	1.0	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	15	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	23	1.0	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	100	1.0	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	1.8	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	2.4	1.0	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	28	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	98	75-127				
Toluene-d8	102	80-127				
4-Bromofluorobenzene	101	78-125				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-22-18-GW					
Laboratory ID:	12-073-07					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	37	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	6.5	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	5.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	25	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Benzene	28	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	7.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	12-7-18	12-7-18	
Toluene	24	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
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 Project: Montlake

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-22-18-GW					
Laboratory ID:	12-073-07					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	10	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	78	1.0	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	210	2.0	EPA 8260C	12-7-18	12-7-18	
o-Xylene	74	1.0	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	7.0	1.0	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	14	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	21	1.0	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	93	1.0	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	1.6	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	2.2	1.0	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	26	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-073-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.26	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	7.3	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
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VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Trip Blank					
Laboratory ID:	12-073-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

VOLATILE ORGANICS 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	0.20	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.26	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	7.3	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	



Date of Report: December 10, 2018
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 Project: Montlake

VOLATILE ORGANICS 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	12-7-18	12-7-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>78-125</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**VOLATILE ORGANICS EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	10.5	10.0	10.0	109	105	62-129	4	15	
Benzene	10.7	10.6	10.0	10.0	107	106	77-127	1	15	
Trichloroethene	10.2	10.0	10.0	10.0	102	100	70-120	2	15	
Toluene	10.5	10.4	10.0	10.0	105	104	82-123	1	15	
Chlorobenzene	9.96	10.0	10.0	10.0	100	100	79-120	0	15	
Surrogate:										
Dibromofluoromethane					98	97	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					99	99	78-125			



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Pyridine	ND	0.36	EPA 8270D	12-7-18	12-7-18	
Phenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Aniline	ND	0.18	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	ND	0.18	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Isophorone	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Naphthalene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	ND	0.036	EPA 8270D	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
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 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	ND	0.18	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Fluorene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	ND	0.036	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	ND	0.36	EPA 8270D	12-7-18	12-7-18	
Pyrene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	ND	0.18	EPA 8270D	12-7-18	12-7-18	
bis(2-Ethylhexyl)adipate	ND	0.18	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	ND	0.18	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	69	19 - 103				
Phenol-d6	71	30 - 103				
Nitrobenzene-d5	59	27 - 105				
2-Fluorobiphenyl	69	36 - 102				
2,4,6-Tribromophenol	76	33 - 110				
Terphenyl-d14	67	38 - 108				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Pyridine	ND	0.37	EPA 8270D	12-7-18	12-7-18	
Phenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Aniline	ND	0.19	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	ND	0.19	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Isophorone	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Naphthalene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	ND	0.037	EPA 8270D	12-7-18	12-7-18	



Date of Report: December 10, 2018
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 Project: Montlake

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	ND	0.19	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Fluorene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	ND	0.037	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	ND	0.37	EPA 8270D	12-7-18	12-7-18	
Pyrene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	ND	0.19	EPA 8270D	12-7-18	12-7-18	
bis(2-Ethylhexyl)adipate	ND	0.19	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	ND	0.19	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	66	19 - 103				
Phenol-d6	71	30 - 103				
Nitrobenzene-d5	65	27 - 105				
2-Fluorobiphenyl	71	36 - 102				
2,4,6-Tribromophenol	80	33 - 110				
Terphenyl-d14	71	38 - 108				



Date of Report: December 10, 2018
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 Laboratory Reference: 1812-073
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Pyridine	ND	0.33	EPA 8270D	12-7-18	12-7-18	
Phenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Aniline	ND	0.17	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	ND	0.17	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Isophorone	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Naphthalene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	ND	0.033	EPA 8270D	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	ND	0.17	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Fluorene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	ND	0.033	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	ND	0.33	EPA 8270D	12-7-18	12-7-18	
Pyrene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	ND	0.17	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	ND	0.17	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	74	19 - 103				
Phenol-d6	80	30 - 103				
Nitrobenzene-d5	77	27 - 105				
2-Fluorobiphenyl	80	36 - 102				
2,4,6-Tribromophenol	85	33 - 110				
Terphenyl-d14	78	38 - 108				



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 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.16	1.19	1.33	1.33	87	89	45 - 105	3	29	
2-Chlorophenol	1.13	1.13	1.33	1.33	85	85	46 - 105	0	33	
1,4-Dichlorobenzene	0.549	0.560	0.667	0.667	82	84	42 - 105	2	37	
n-Nitroso-di-n-propylamine	0.569	0.557	0.667	0.667	85	84	45 - 105	2	26	
1,2,4-Trichlorobenzene	0.604	0.588	0.667	0.667	91	88	45 - 105	3	32	
4-Chloro-3-methylphenol	1.29	1.24	1.33	1.33	97	93	55 - 105	4	21	
Acenaphthene	0.568	0.550	0.667	0.667	85	82	48 - 105	3	21	
4-Nitrophenol	1.26	1.21	1.33	1.33	95	91	53 - 105	4	20	
2,4-Dinitrotoluene	0.673	0.647	0.667	0.667	101	97	47 - 105	4	19	
Pentachlorophenol	1.29	1.23	1.33	1.33	97	92	35 - 125	5	26	
Pyrene	0.587	0.551	0.667	0.667	88	83	55 - 110	6	17	
Surrogate:										
2-Fluorophenol					84	81	19 - 103			
Phenol-d6					91	88	30 - 103			
Nitrobenzene-d5					88	85	27 - 105			
2-Fluorobiphenyl					90	87	36 - 102			
2,4,6-Tribromophenol					103	100	33 - 110			
Terphenyl-d14					94	86	38 - 108			



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
n-Nitrosodimethylamine	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Pyridine	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Phenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Aniline	ND	9.4	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	1.9	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	1.9	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.9	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Isophorone	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Naphthalene	8.5	1.9	EPA 8270D	12-7-18	12-7-18	
4-Chloroaniline	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	2.4	1.9	EPA 8270D	12-7-18	12-7-18	
1-Methylnaphthalene	1.5	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	ND	1.9	EPA 8270D	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
2,4-Dinitrophenol	ND	9.4	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	ND	9.4	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	ND	1.9	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	ND	1.9	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Fluorene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	9.4	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	ND	1.9	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	ND	3.8	EPA 8270D	12-7-18	12-7-18	U1
4-Bromophenyl-phenylether	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	ND	9.4	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	ND	9.4	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	ND	9.4	EPA 8270D	12-7-18	12-7-18	
Pyrene	ND	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	ND	1.9	EPA 8270D	12-7-18	12-7-18	
bis(2-Ethylhexyl)adipate	ND	9.4	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	24	9.4	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	ND	1.9	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	ND	0.32	EPA 8270D/SIM	12-7-18	12-7-18	U1
Benzo(j,k)fluoranthene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	22	12 - 80				
Phenol-d6	27	10 - 82				
Nitrobenzene-d5	38	30 - 103				
2-Fluorobiphenyl	46	33 - 103				
2,4,6-Tribromophenol	48	20 - 121				
Terphenyl-d14	43	32 - 113				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Pyridine	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Phenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Aniline	ND	5.0	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Isophorone	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Naphthalene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	ND	1.0	EPA 8270D	12-7-18	12-7-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 METHOD BLANK QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	ND	5.0	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	ND	1.0	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Fluorene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	ND	5.0	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	ND	5.0	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	ND	5.0	EPA 8270D	12-7-18	12-7-18	
Pyrene	ND	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	ND	1.0	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	ND	1.0	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	34	12 - 80				
Phenol-d6	28	10 - 82				
Nitrobenzene-d5	66	30 - 103				
2-Fluorobiphenyl	67	33 - 103				
2,4,6-Tribromophenol	77	20 - 121				
Terphenyl-d14	84	32 - 113				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**SEMIVOLATILE ORGANICS EPA 8270D/SIM
 SB/SBD QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	12.2	12.9	40.0	40.0	31	32	24 - 52	6	28	
2-Chlorophenol	24.2	25.1	40.0	40.0	61	63	44 - 91	4	30	
1,4-Dichlorobenzene	9.76	7.45	20.0	20.0	49	37	36 - 82	27	33	
n-Nitroso-di-n-propylamine	13.2	13.8	20.0	20.0	66	69	43 - 93	4	29	
1,2,4-Trichlorobenzene	11.5	9.44	20.0	20.0	58	47	40 - 86	20	28	
4-Chloro-3-methylphenol	31.3	34.7	40.0	40.0	78	87	49 - 99	10	25	
Acenaphthene	13.7	13.9	20.0	20.0	69	70	47 - 90	1	25	
4-Nitrophenol	15.8	16.2	40.0	40.0	40	41	23 - 61	2	30	
2,4-Dinitrotoluene	16.0	17.5	20.0	20.0	80	88	42 - 97	9	26	
Pentachlorophenol	33.9	34.0	40.0	40.0	85	85	39 - 115	0	29	
Pyrene	15.1	15.5	20.0	20.0	76	78	51 - 100	3	22	
Surrogate:										
2-Fluorophenol					37	38	12 - 80			
Phenol-d6					29	30	10 - 82			
Nitrobenzene-d5					68	68	30 - 103			
2-Fluorobiphenyl					72	69	33 - 103			
2,4,6-Tribromophenol					83	88	20 - 121			
Terphenyl-d14					77	80	32 - 113			



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

PCBs EPA 8082A

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
Aroclor 1016	ND	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.054	EPA 8082A	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>70</i>	<i>39-130</i>				
Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
Aroclor 1016	ND	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.056	EPA 8082A	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>76</i>	<i>39-130</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Aroclor 1016	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	81	39-130				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-073-04										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	0.329	0.345	0.500	0.500	ND	66	69	45-118	5	15	
Surrogate:											
DCB						67	79	39-130			



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
Aroclor 1016	ND	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.077	EPA 8082A	12-7-18	12-7-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>78</i>	<i>44-144</i>				



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	ND	0.050	EPA 8082A	12-7-18	12-7-18	
Surrogate:	Percent Recovery	Control Limits				
DCB	106	44-144				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1207W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.495	0.492	0.500	0.500	N/A	99	98	71-131	1	12	
Surrogate:											
DCB						111	116	44-144			



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-20					
Laboratory ID:	12-073-04					
Arsenic	ND	11	EPA 6010D	12-10-18	12-10-18	
Barium	52	2.7	EPA 6010D	12-10-18	12-10-18	
Cadmium	ND	0.54	EPA 6010D	12-10-18	12-10-18	
Chromium	52	0.54	EPA 6010D	12-10-18	12-10-18	
Lead	ND	5.4	EPA 6010D	12-10-18	12-10-18	
Mercury	ND	0.27	EPA 7471B	12-10-18	12-10-18	
Selenium	ND	11	EPA 6010D	12-10-18	12-10-18	
Silver	ND	1.1	EPA 6010D	12-10-18	12-10-18	

Client ID:	H-21-18-21					
Laboratory ID:	12-073-05					
Arsenic	ND	11	EPA 6010D	12-10-18	12-10-18	
Barium	55	2.8	EPA 6010D	12-10-18	12-10-18	
Cadmium	ND	0.56	EPA 6010D	12-10-18	12-10-18	
Chromium	52	0.56	EPA 6010D	12-10-18	12-10-18	
Lead	ND	5.6	EPA 6010D	12-10-18	12-10-18	
Mercury	ND	0.28	EPA 7471B	12-10-18	12-10-18	
Selenium	ND	11	EPA 6010D	12-10-18	12-10-18	
Silver	ND	1.1	EPA 6010D	12-10-18	12-10-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210SM1					
Arsenic	ND	10	EPA 6010D	12-10-18	12-10-18	
Barium	ND	2.5	EPA 6010D	12-10-18	12-10-18	
Cadmium	ND	0.50	EPA 6010D	12-10-18	12-10-18	
Chromium	ND	0.50	EPA 6010D	12-10-18	12-10-18	
Lead	ND	5.0	EPA 6010D	12-10-18	12-10-18	
Selenium	ND	10	EPA 6010D	12-10-18	12-10-18	
Silver	ND	1.0	EPA 6010D	12-10-18	12-10-18	

Laboratory ID:	MB1210S2					
Mercury	ND	0.25	EPA 7471B	12-10-18	12-10-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-073-05							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	20	
Barium	49.1	49.6	NA	NA	NA	1	20	
Cadmium	ND	ND	NA	NA	NA	NA	20	
Chromium	46.5	45.4	NA	NA	NA	2	20	
Lead	ND	ND	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	20	
Silver	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	12-073-05									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	95.3	96.6	100	100	ND	95	97	75-125	1	20
Barium	153	157	100	100	49.1	104	108	75-125	3	20
Cadmium	46.4	47.9	50.0	50.0	ND	93	96	75-125	3	20
Chromium	132	138	100	100	46.5	85	91	75-125	5	20
Lead	231	239	250	250	ND	92	96	75-125	3	20
Selenium	96.4	92.8	100	100	ND	96	93	75-125	4	20
Silver	22.4	22.5	25.0	25.0	ND	89	90	75-125	1	20

Laboratory ID:	12-073-05									
Mercury	0.553	0.537	0.500	0.500	0.0170	107	104	80-120	3	20



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
Arsenic	52	6.7	EPA 200.8	12-7-18	12-10-18	
Barium	820	56	EPA 200.8	12-7-18	12-10-18	
Cadmium	ND	4.4	EPA 200.8	12-7-18	12-10-18	
Chromium	420	22	EPA 200.8	12-7-18	12-10-18	
Lead	34	2.2	EPA 200.8	12-7-18	12-10-18	
Mercury	ND	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	ND	5.6	EPA 200.8	12-7-18	12-10-18	
Silver	ND	11	EPA 200.8	12-7-18	12-10-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**TOTAL METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207WM1					
Arsenic	ND	3.3	EPA 200.8	12-7-18	12-7-18	
Barium	ND	28	EPA 200.8	12-7-18	12-7-18	
Cadmium	ND	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	ND	11	EPA 200.8	12-7-18	12-7-18	
Lead	ND	1.1	EPA 200.8	12-7-18	12-7-18	
Selenium	ND	5.6	EPA 200.8	12-7-18	12-7-18	
Silver	ND	11	EPA 200.8	12-7-18	12-7-18	

Laboratory ID:	MB1207W1					
Mercury	ND	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-213-06							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Barium	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-052-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	11-213-06									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	219	229	222	222	ND	99	103	75-125	4	20
Barium	232	232	222	222	ND	104	105	75-125	0	20
Cadmium	213	224	222	222	ND	96	101	75-125	5	20
Chromium	209	205	222	222	ND	94	92	75-125	2	20
Lead	208	211	222	222	ND	94	95	75-125	2	20
Selenium	215	228	222	222	ND	97	103	75-125	6	20
Silver	226	225	222	222	ND	102	101	75-125	0	20

Laboratory ID:	12-052-01									
Mercury	11.5	11.4	12.5	12.5	ND	92	91	75-125	1	20



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 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	H-21-18-GW					
Laboratory ID:	12-073-06					
Arsenic	ND	3.0	EPA 200.8	12-7-18	12-10-18	
Barium	ND	25	EPA 200.8	12-7-18	12-10-18	
Cadmium	ND	4.0	EPA 200.8	12-7-18	12-10-18	
Chromium	ND	10	EPA 200.8	12-7-18	12-10-18	
Lead	ND	1.0	EPA 200.8	12-7-18	12-10-18	
Mercury	ND	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	ND	5.0	EPA 200.8	12-7-18	12-10-18	
Silver	ND	10	EPA 200.8	12-7-18	12-10-18	



Date of Report: December 10, 2018
 Samples Submitted: December 7, 2018
 Laboratory Reference: 1812-073
 Project: Montlake

**DISSOLVED METALS
 EPA 200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207F1					
Arsenic	ND	3.0	EPA 200.8	12-7-18	12-10-18	
Barium	ND	25	EPA 200.8	12-7-18	12-10-18	
Cadmium	ND	4.0	EPA 200.8	12-7-18	12-10-18	
Chromium	ND	10	EPA 200.8	12-7-18	12-10-18	
Lead	ND	1.0	EPA 200.8	12-7-18	12-10-18	
Selenium	ND	5.0	EPA 200.8	12-7-18	12-10-18	
Silver	ND	10	EPA 200.8	12-7-18	12-10-18	

Laboratory ID:	MB1207F1					
Mercury	ND	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-072-01							
	ORIG	DUP						
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Barium	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Silver	ND	ND	NA	NA	NA	NA	NA	20

Laboratory ID:	12-052-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	12-072-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	80.0	81.4	80.0	80.0	ND	100	102	75-125	2	20
Barium	82.6	89.0	80.0	80.0	ND	103	111	75-125	7	20
Cadmium	72.4	77.8	80.0	80.0	ND	91	97	75-125	7	20
Chromium	71.4	72.8	80.0	80.0	ND	89	91	75-125	2	20
Lead	68.4	72.6	80.0	80.0	ND	86	91	75-125	6	20
Selenium	76.8	76.8	80.0	80.0	ND	96	96	75-125	0	20
Silver	73.6	79.6	80.0	80.0	ND	92	100	75-125	8	20

Laboratory ID:	12-052-01									
Mercury	11.5	11.6	12.5	12.5	ND	92	92	75-125	0	20



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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

% MOISTURE

Date Analyzed: 12-7-18

Client ID	Lab ID	% Moisture
H-21-18-20	12-073-04	7
H-21-18-21	12-073-05	11





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

Page 1 of 1

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Days ☐ 3 Days

☐ Standard (7 Days)

☐ (other) _____

Laboratory Number:

12-073

Company: **ENNOVEX**
Project Number: _____
Project Name: **Montlake**
Project Manager: **Clean Hayman**
Sampled by: **Coleen Doffy**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1	H-21-18-5	12/6/18	1030	S
2	-10	12/6/18	1037	S
3	-15	12/6/18	2048	S
4	-20	12/6/18	2316	S
5	-25 21	12/6/18	2317	S
6	H-21-18-6W	12/6/18	1145	W
7	H-22-18-6W	12/6/18	2350	W
8	Trip Blank	-	-	W

Number of Containers		Laboratory Number:									
		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									

Signature	Company	Date	Time	Comments/Special Instructions									
<i>[Signature]</i>	ITEN	12/7/18	0600	Total 8 D/Solved metals - 1st file - Hold samples show alone									
<i>[Signature]</i>	ITEN	12/7/18	0635										
<i>[Signature]</i>	OSI	12.7.18	6:35A										

Relinquished													
Received													
Relinquished													
Received													
Relinquished													
Received													
Relinquished													
Received													
Relinquished													
Reviewed/Date													

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

APPENDIX C
GPR SURVEY



**Underground Detection
Services, Inc.**

6809 North 56th Ave.
Glendale, AZ 85301

623/939-4690, tel
602/955-3146, fax
888/822-4999, toll-free

December 3, 2018

Colin Duffy
Innovex Environmental Management, Inc
16310 80th St NE, Suite 300
Redmond, WA 98052

Dear Colin:

This is a report on the equipment, procedures, and results of the geophysical survey performed at the Montlake Market/Gas Station, 2625 Montlake Pl E, Seattle, WA. The survey was performed on December 3, 2018.

The purpose of the survey was to clear boring locations and survey the parking lot for possible UST's.

The site is currently an operating food market and gas station. A temporary Christmas tree lot occupies the west edge of the market parking lot.

The equipment available for the survey included but was not limited to a GSSI Profiler 400 multi-frequency electromagnetic (EM) profiler, GSSI UtilityScan ground penetrating radar (GPR) with 350 MHz antenna, Schonstedt GA-52 magnetic locator (MAG), and pipe/cable locators.

The EM produces a sinusoidal signal that is transmitted into the subsurface. This transmitted signal induces a flow of electrical current into the soil. These currents in turn induce a secondary electromagnetic field. The presence or absence of metallic objects and voids affects this secondary field. The secondary electromagnetic field is measured, collected, interpreted and stored for later processing.

The GPR utilizes high frequency radio waves to probe the subsurface. A radio wave is emitted from the antenna and travels through the soil, if there is an anomaly below the antenna; the radio wave is reflected back. The data that is collected is displayed both in real time, through a color display. The data appears as a slice of the subsurface. The top of the page is the surface of the survey line while the farther down the page you go,

the depth increases. The survey line start point is the left side of the page next to the vertical scale, in inches. The end of the survey line is the right side of the page. The depth of signal penetration for this antenna is approximately 12 feet, in ideal conditions. The actual signal penetration for this site is less than 5 feet. Normal soil conditions appear in various shades of red and black. Conductive soils, where signal penetration ends, are represented by distorted greys. Potential anomalies are represented in whites and greys with clear vertical tendencies. Abrupt changes in elevation, surface material, and debris may cause the antenna to become elevated from the initial surface. Data collected at these points may show a large white color that would indicate a possible anomaly when no anomaly is present. Notations have been made when this has knowingly occurred.

The MAG measures the magnetic field simultaneously from two separate elevations within the same piece of equipment. A high pitch sound is emitted from the equipment when in the proximity of ferrous material. The equipment is carried over the survey area swung back and forth to cover as much area as possible in a reasonable time frame.

The EM was used in the parking lot of the market. The EM was carried over the surface and data was collected. The data was downloaded to a laptop computer and initial results were determined onsite. The EM data did not show any unknown anomalies that may represent an UST.

The pipe/cable locator was used to locate metallic utility lines around the proposed soil borings. Lines that were located were marked on the surface with marking paint.

The GPR was used on the boring locations after the pipe/cable locators were used to locate utility lines. The GPR was pushed along the ground and data was collect continuously. The data was analyzed onsite. The GPR did confirm the utility lines previously marked with the pipe/cable locators. Several non-metallic drain lines were visible in the GPR data and were marked on the surface with marking paint. The GPR detected possible product lines in the area of soil boring B-9. The lines were marked on the surface with marking paint.

The MAG was carried over the EM survey area in the parking lot. The MAG did not register any unknown metallic objects.

UST's, septic systems, environmental and construction hazards may be present on the sites and not detected if they were not present in the survey

areas, above ground interference, deeper than the equipment is capable of detecting, tanks were removed, or the tanks were collapsed and filled with native soils.

If you have any questions, please feel free to call me.

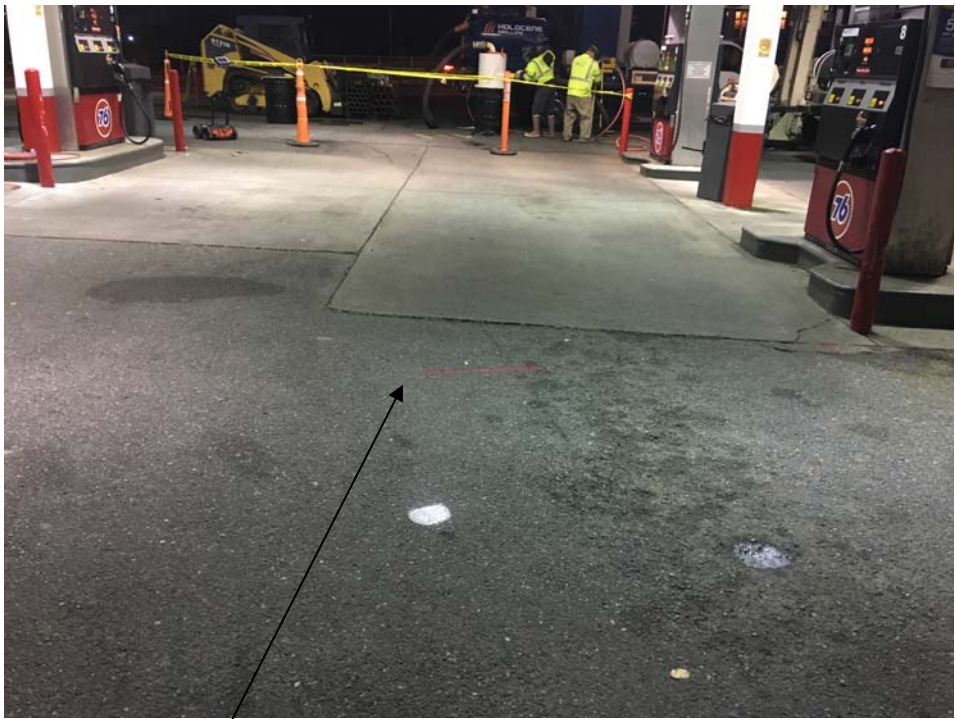
Respectfully,

A handwritten signature in cursive script, reading "Richard A. Lund". The signature is written in black ink and is positioned above the printed name.

Richard A. Lund



SB B-9, possible product lines



SB B-10, electric lines



SB B-11, gas line



Original SB B-7, drain lines, electric lines



New SB B-7



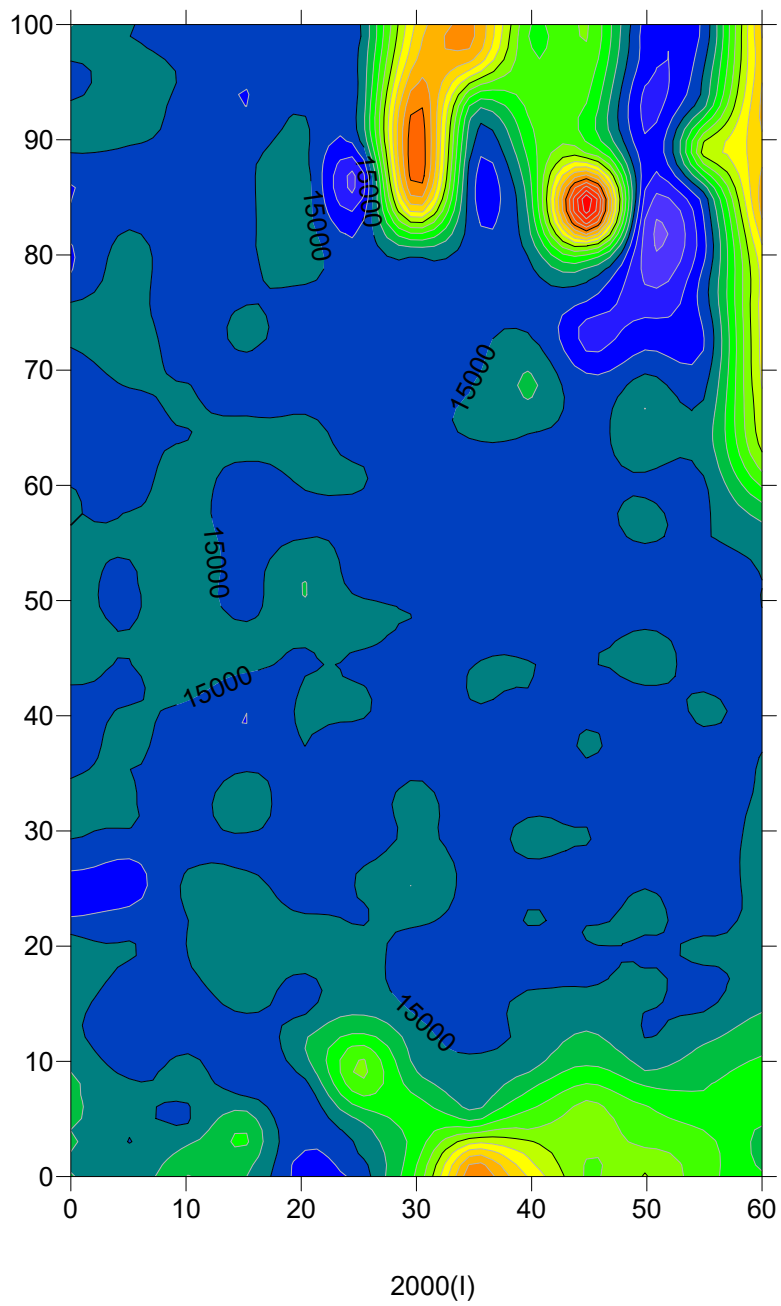
SB B-8



SB B-6, drain lines

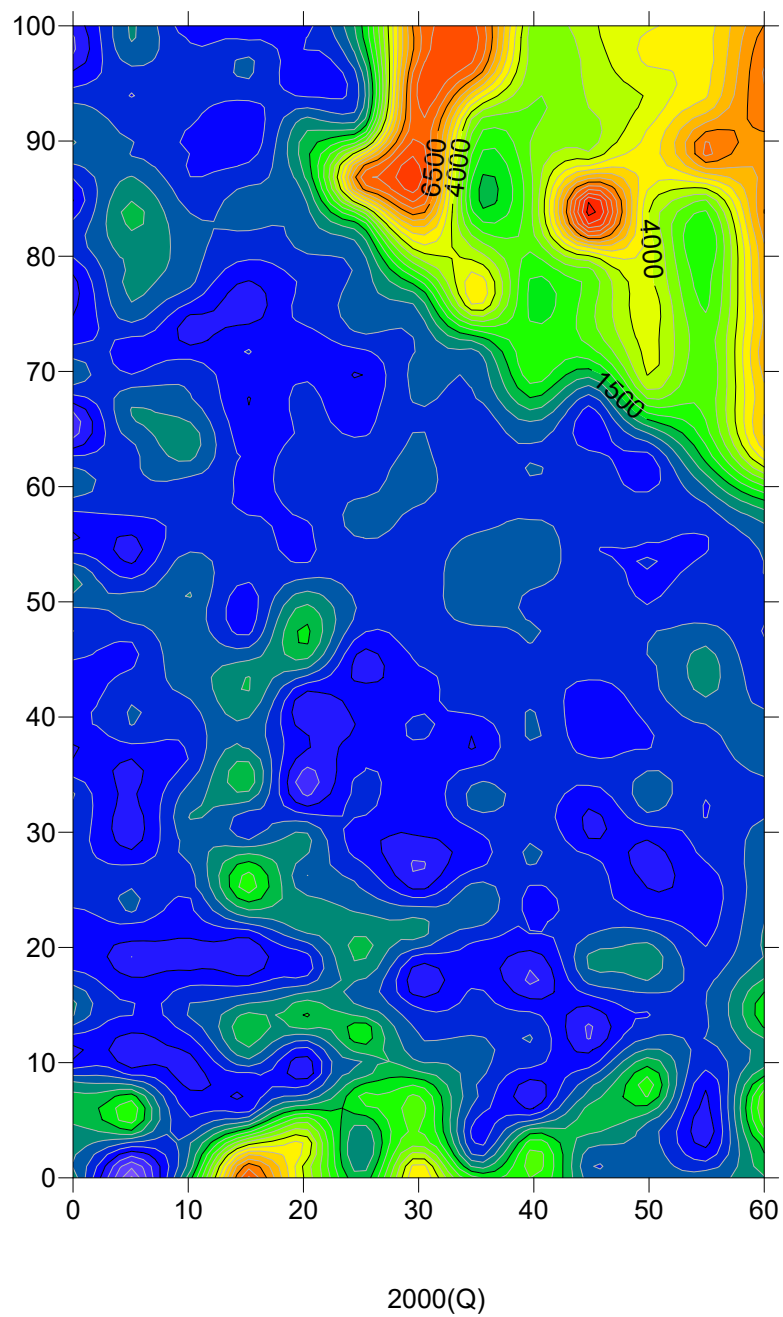


EM survey area, Market parking lot



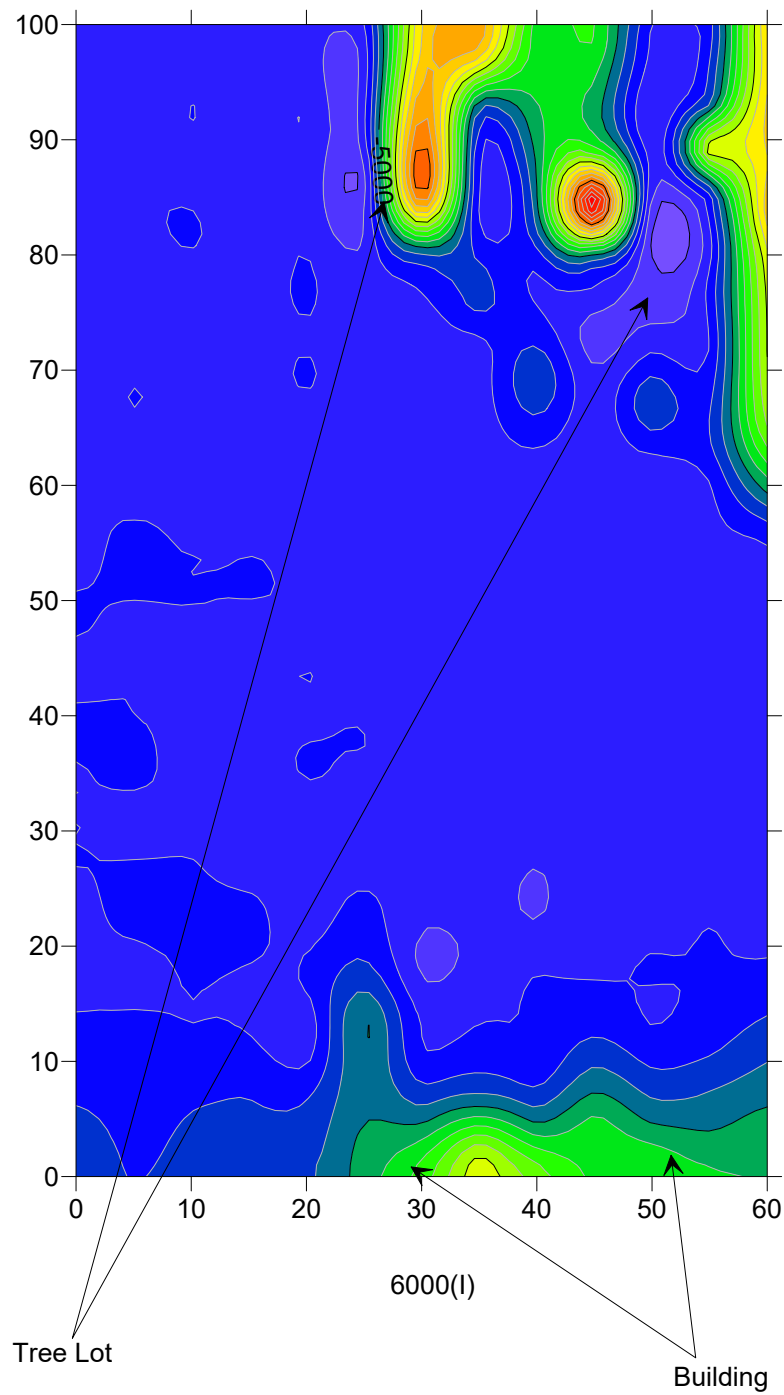
Parking Lot

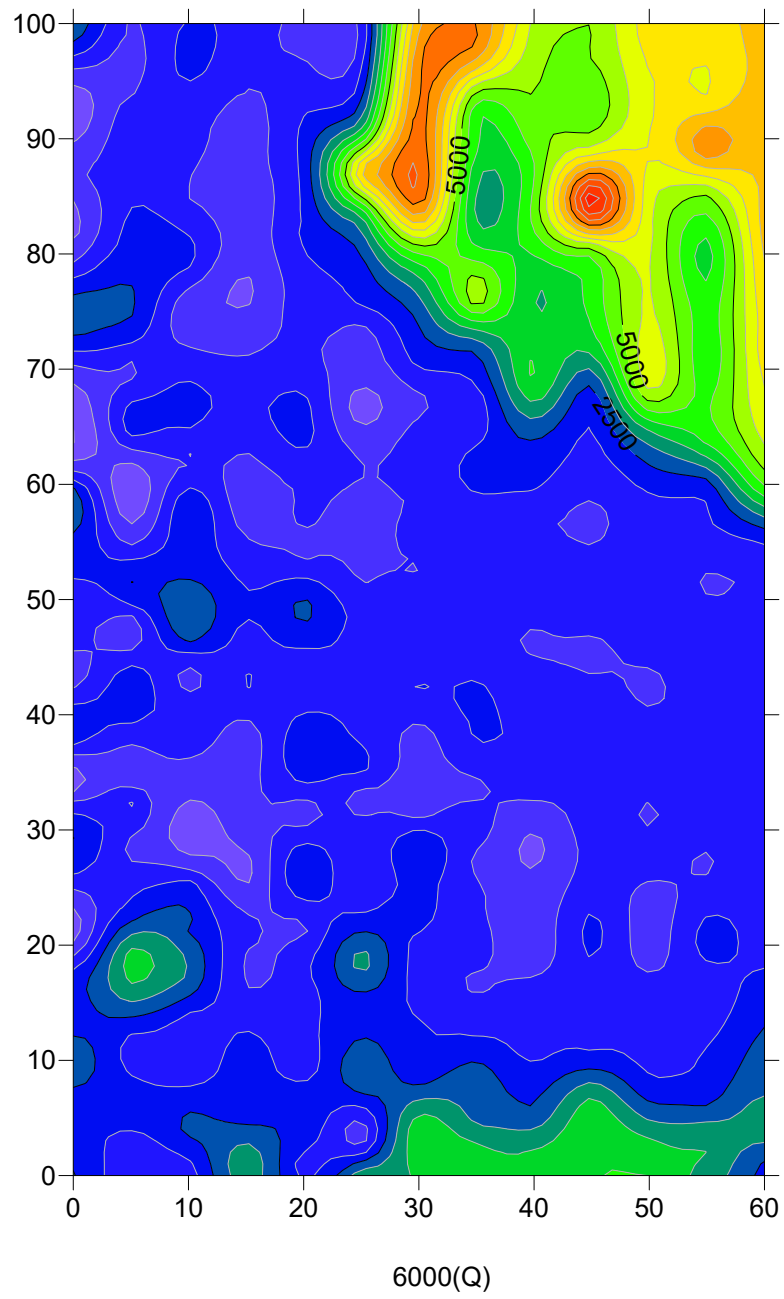




Parking Lot

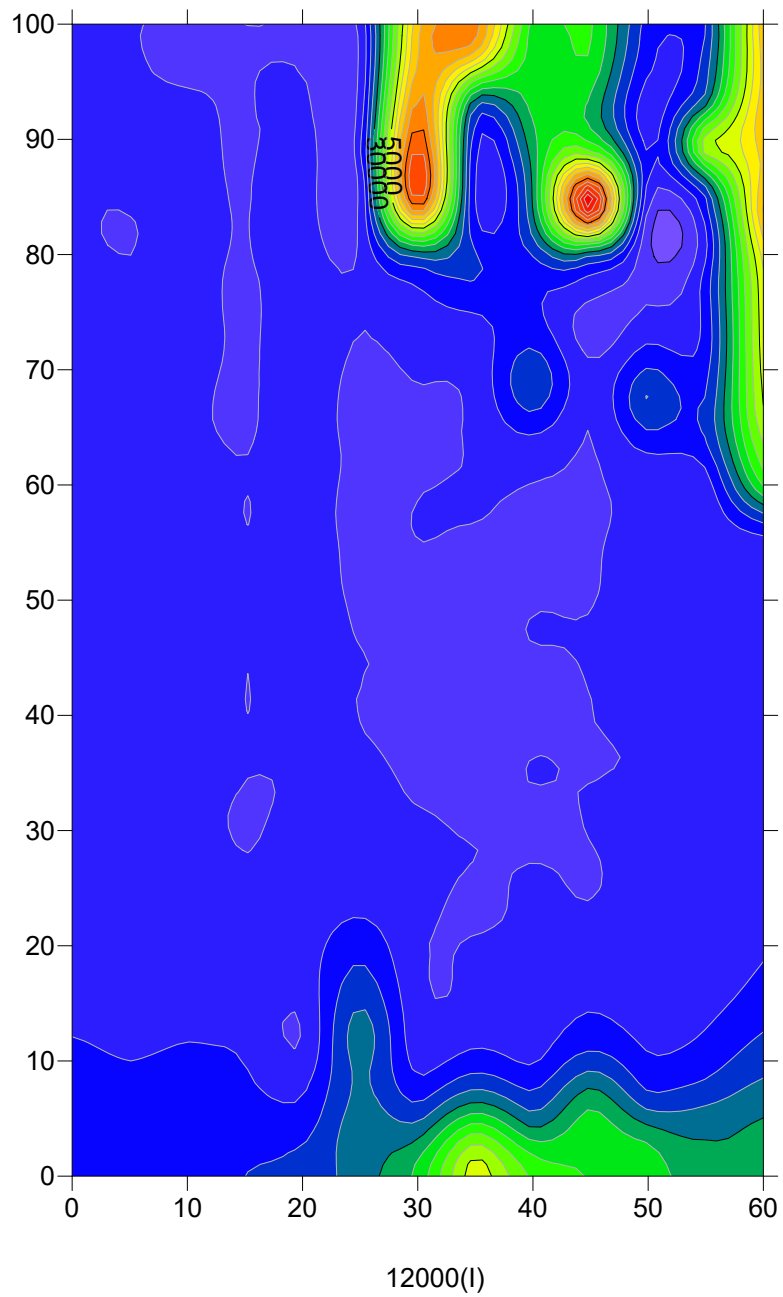






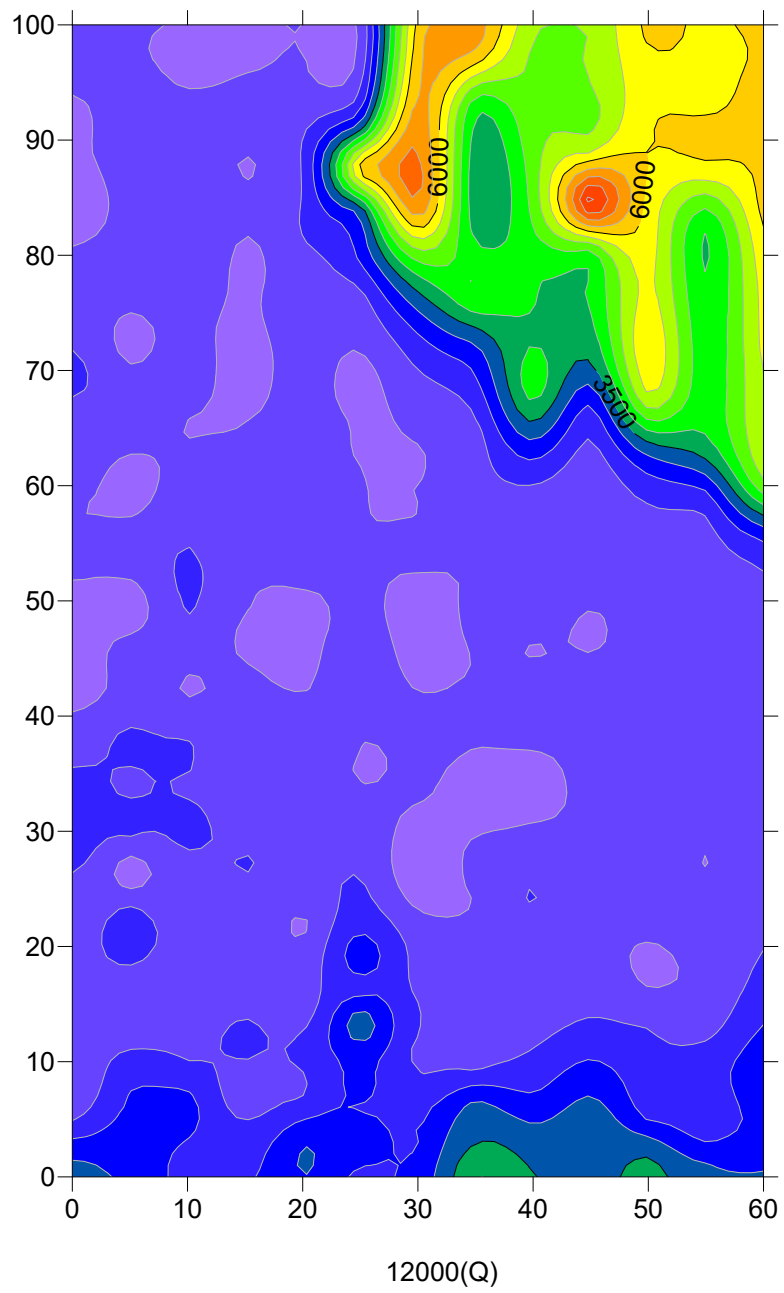
Parking Lot





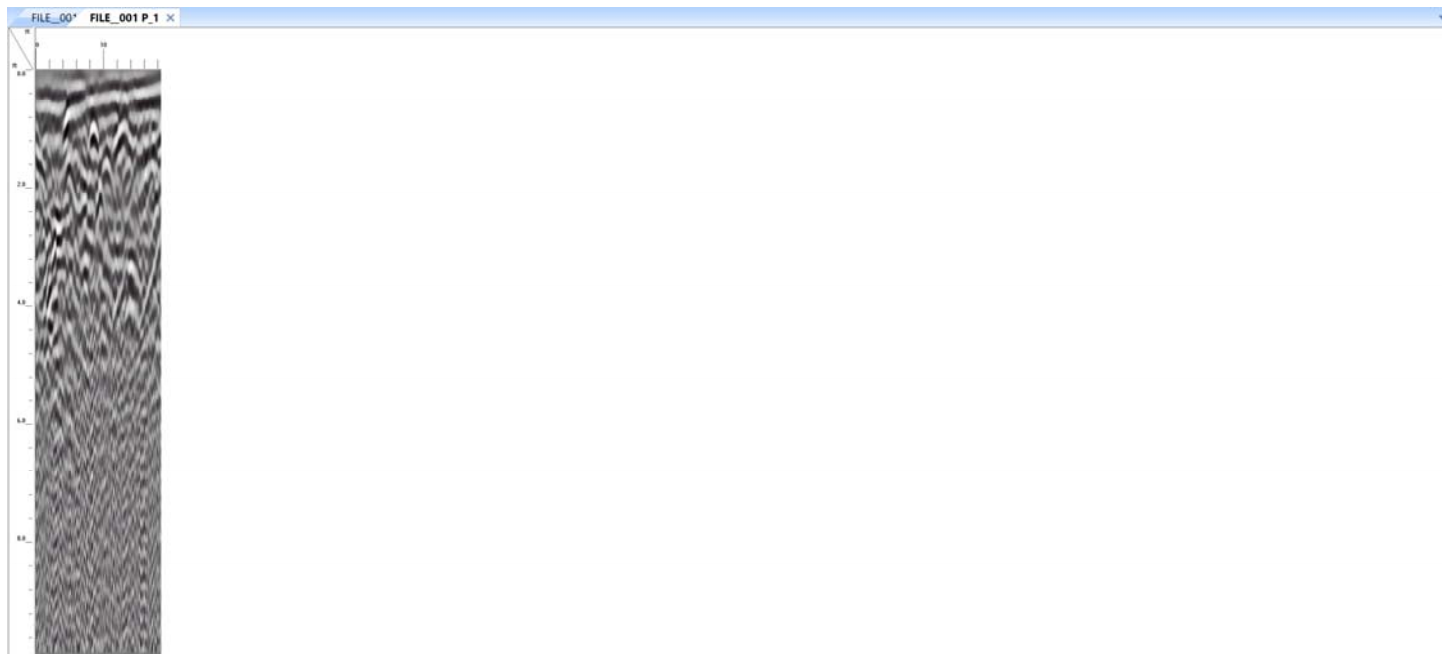
Parking Lot



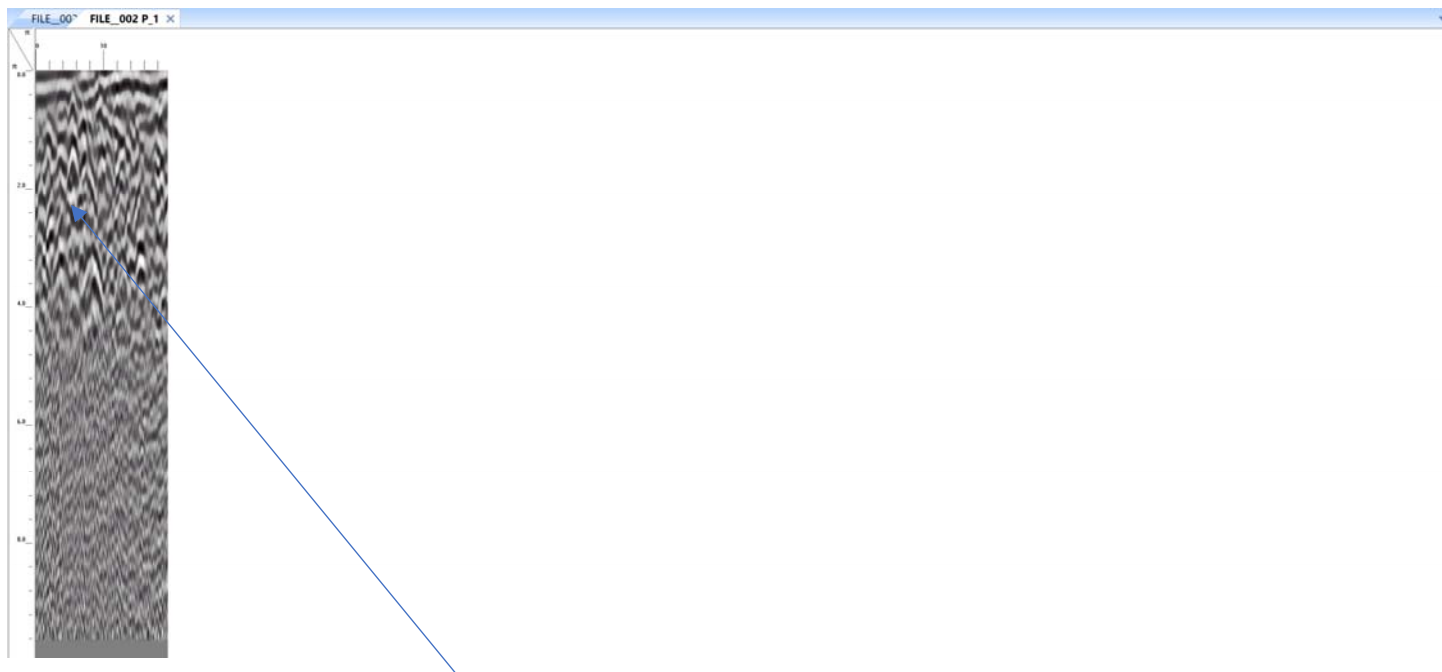


Parking Lot

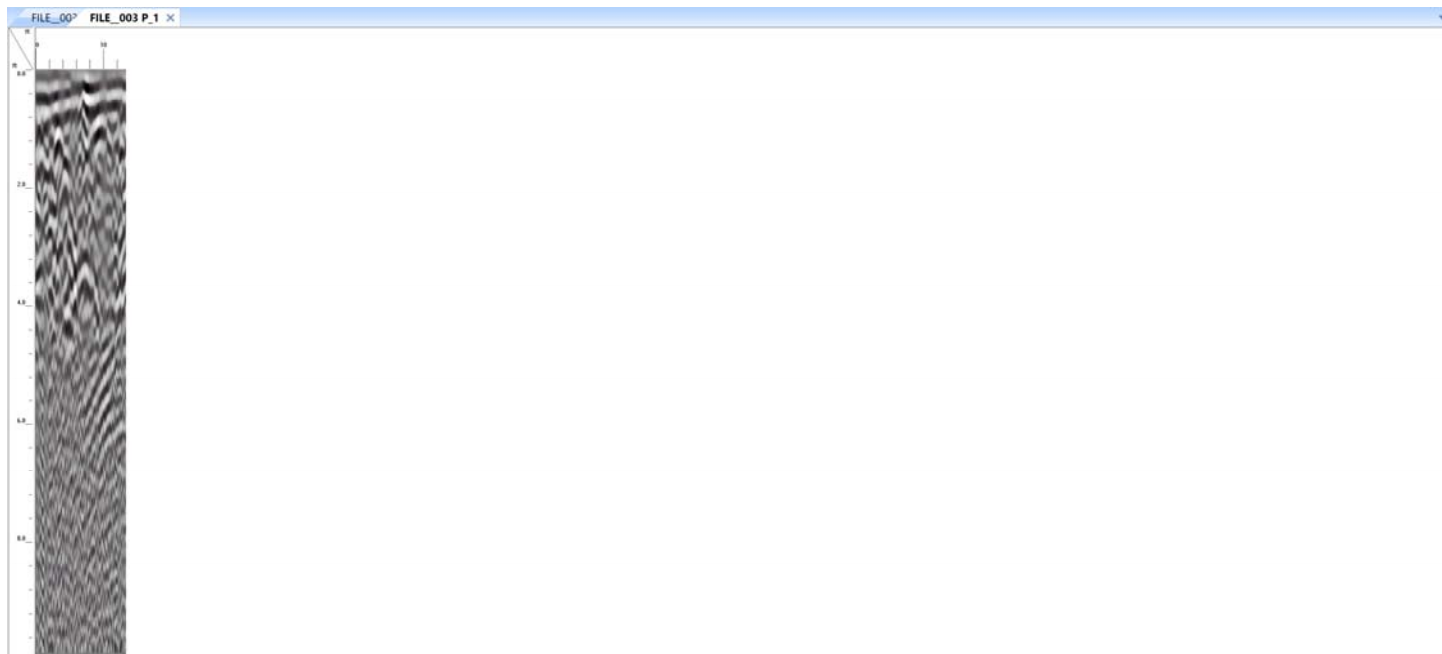




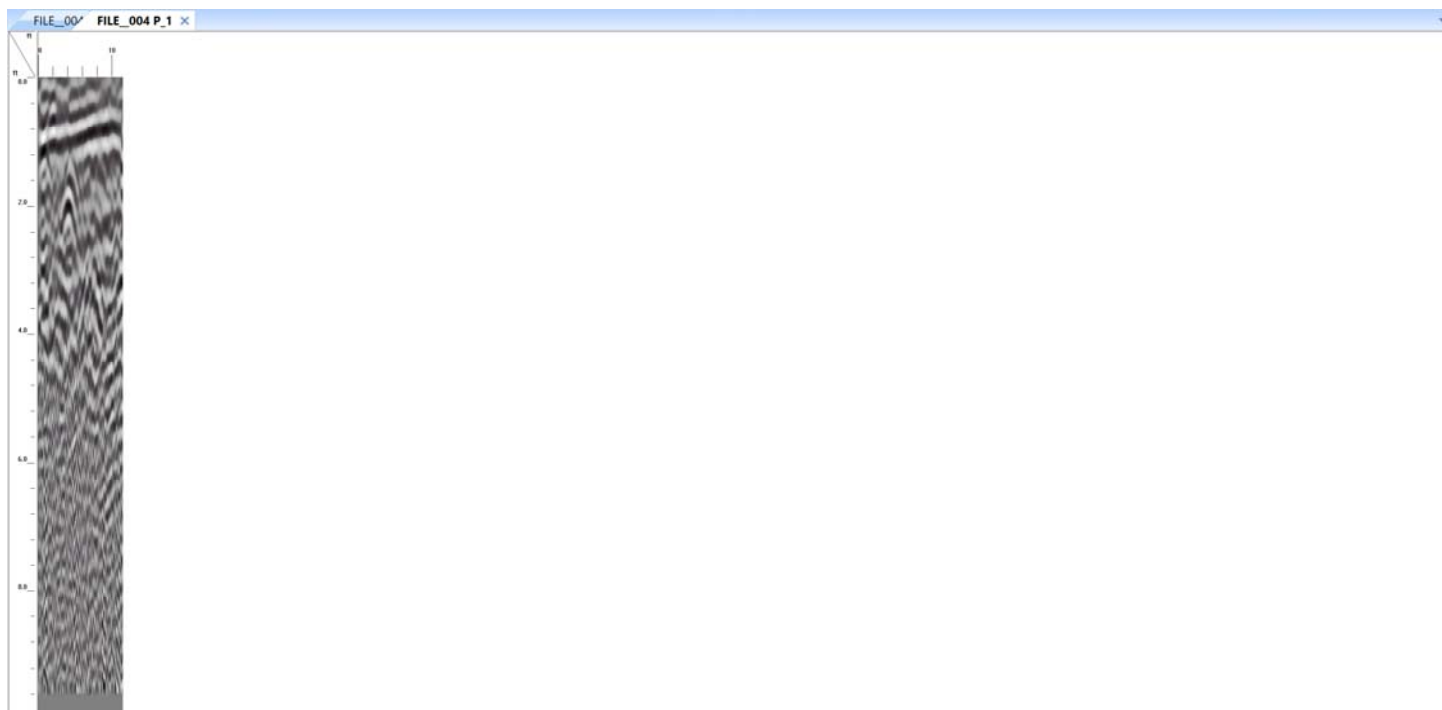
GPR Data: Soil Boring B-9, West to East



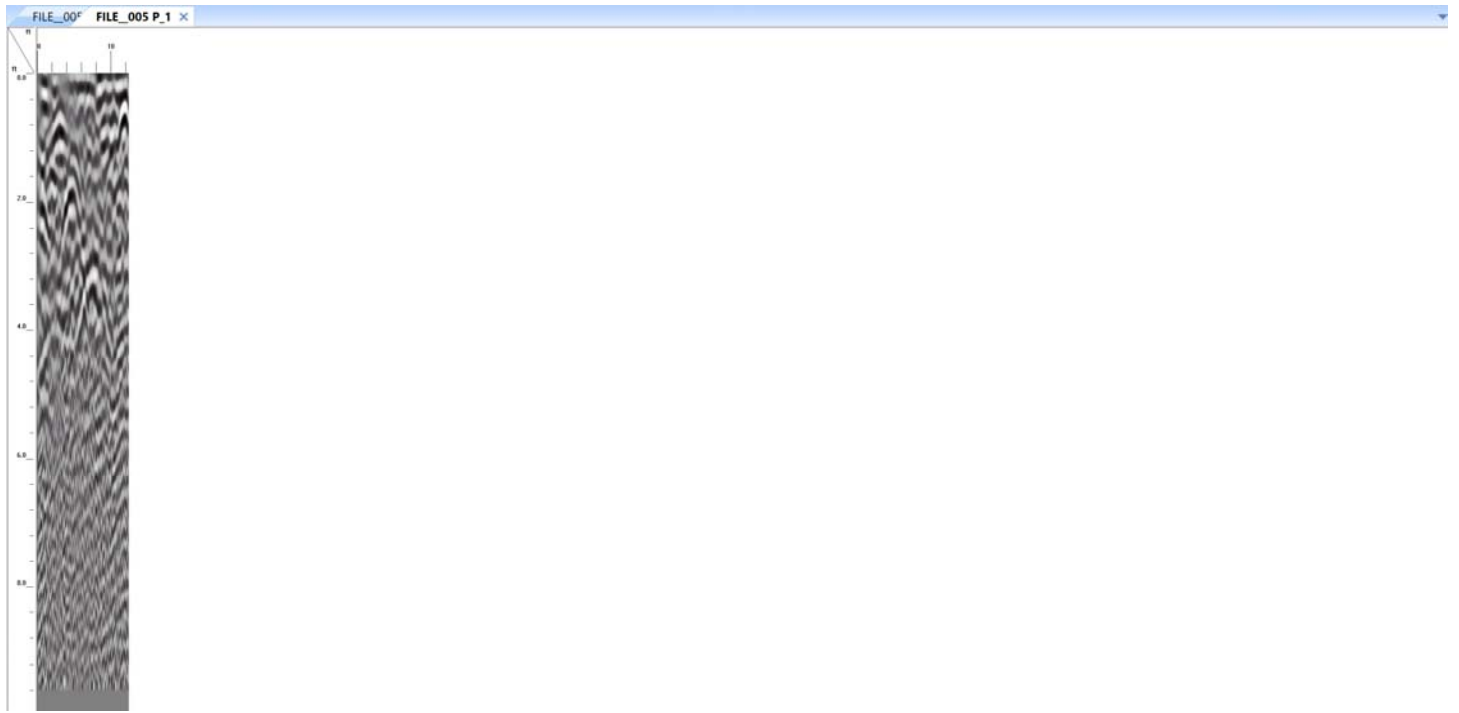
GPR Data: SB B-9, W-E, possible product lines



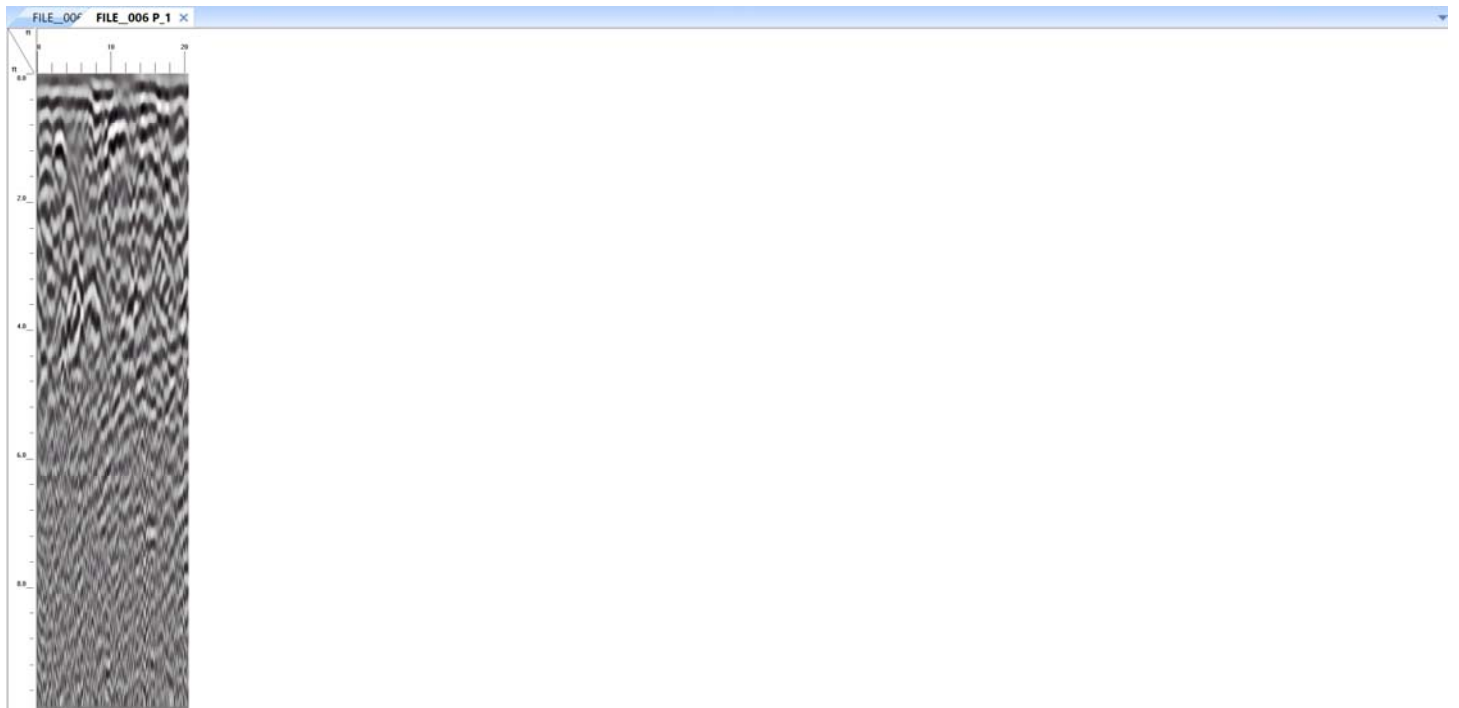
GPR Data: SB B-9, W-E



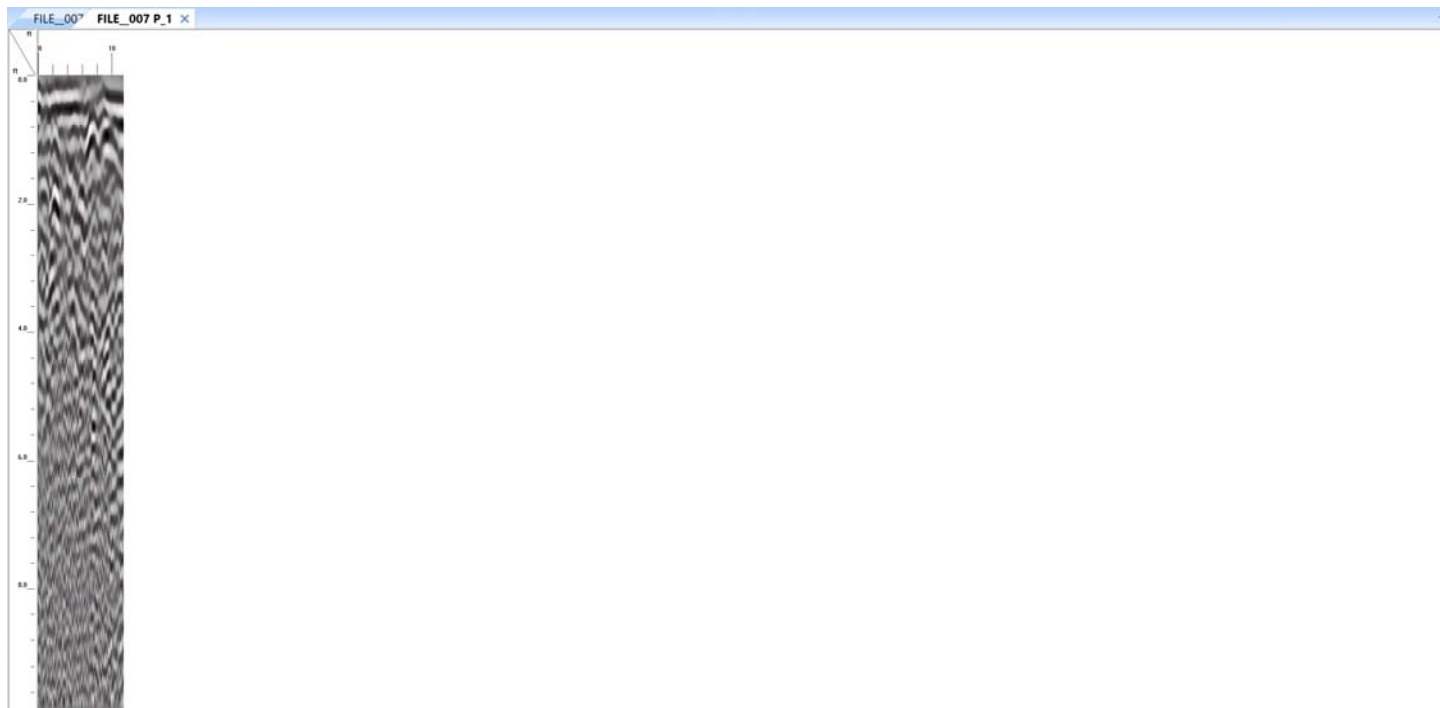
GPR Data: SB B-9, W-E



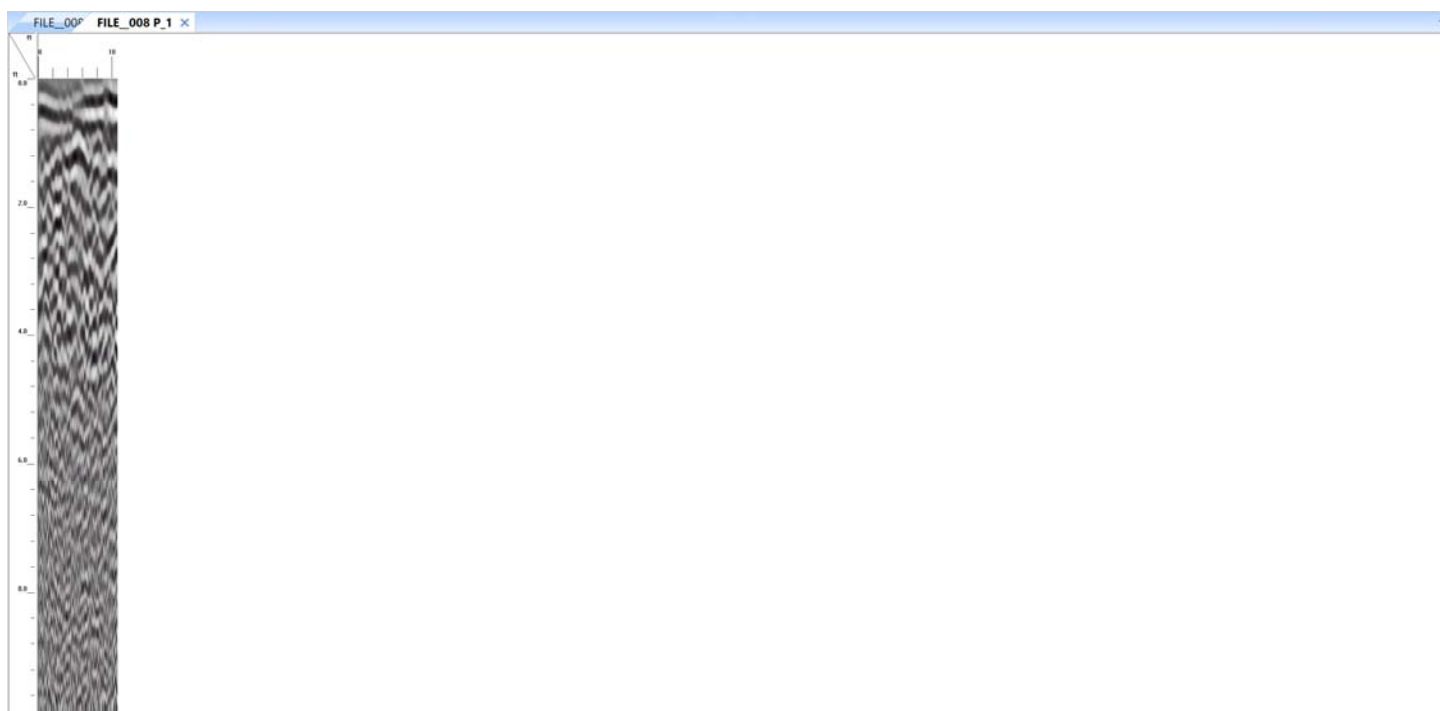
GPR Data: SB B-9, W-E



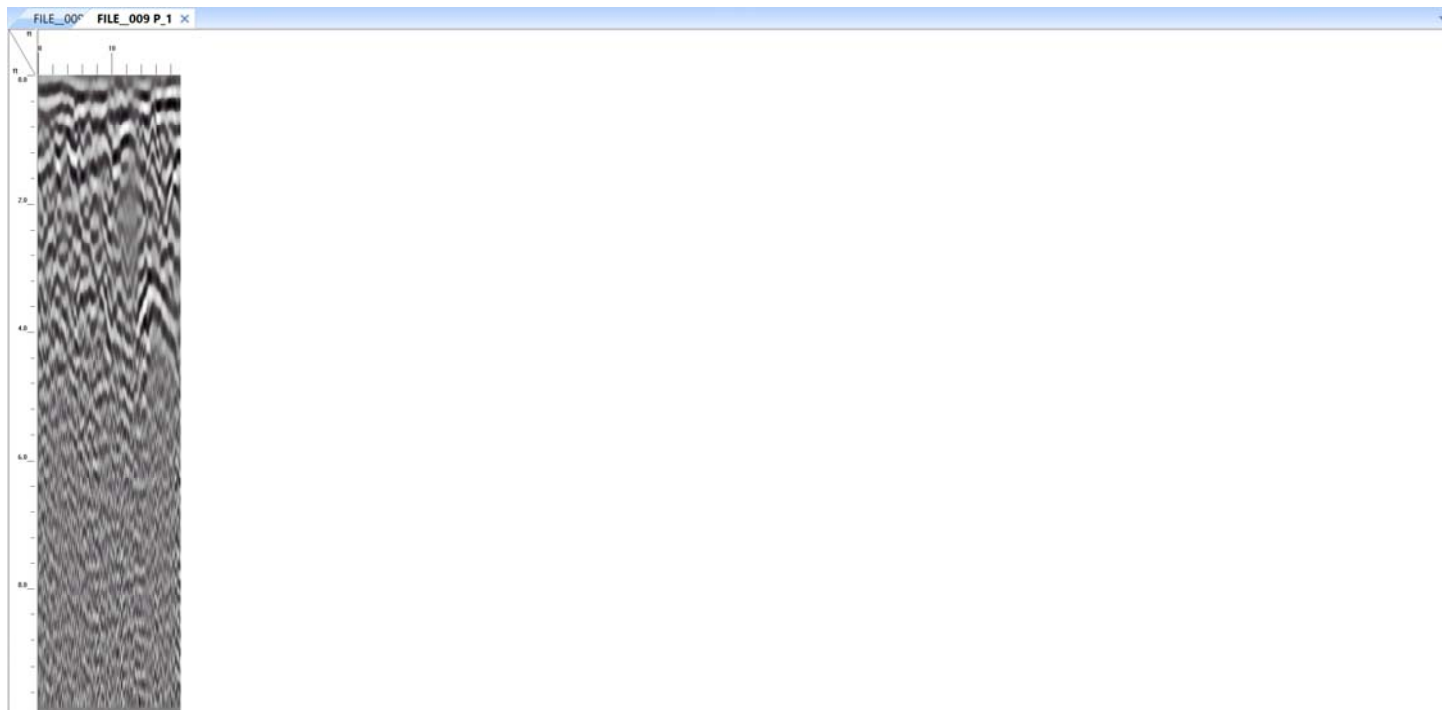
GPR Data: SB B-9, W-E



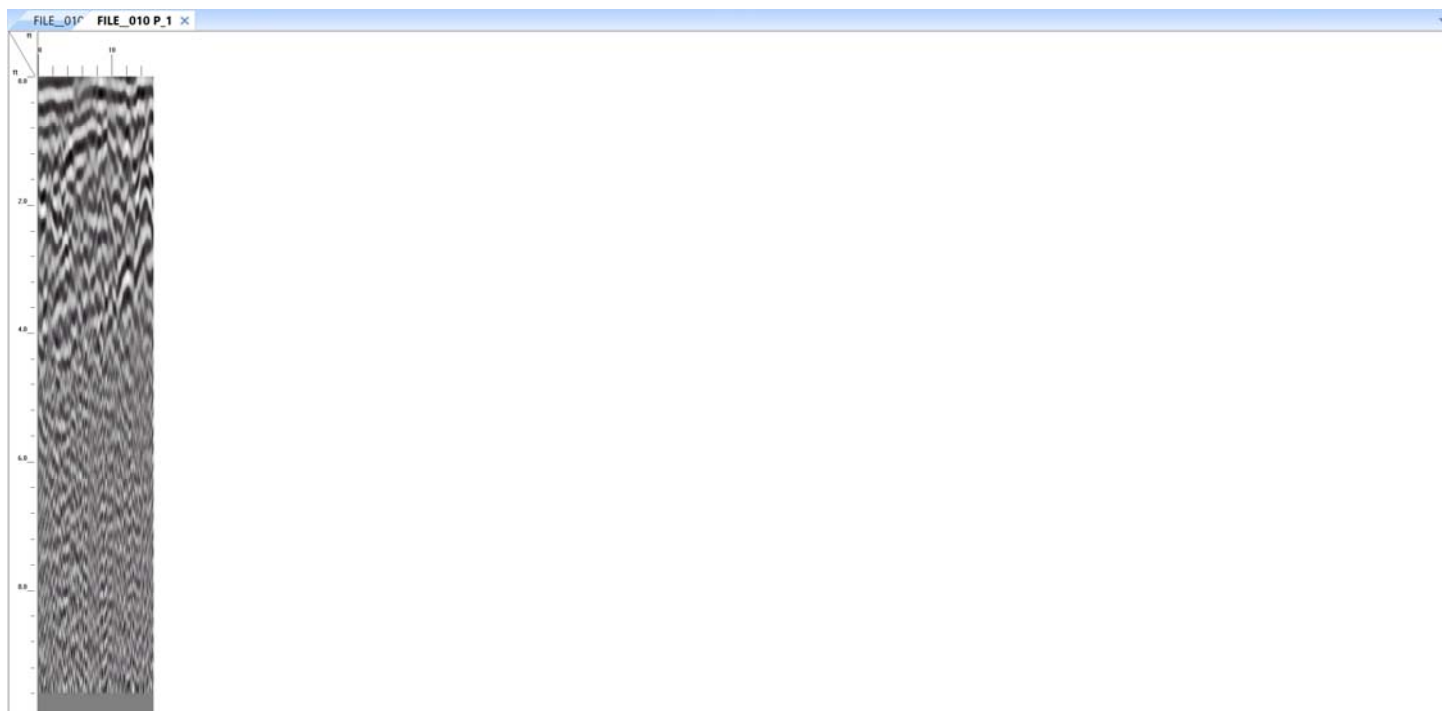
GPR Data: SB B-9, South to North



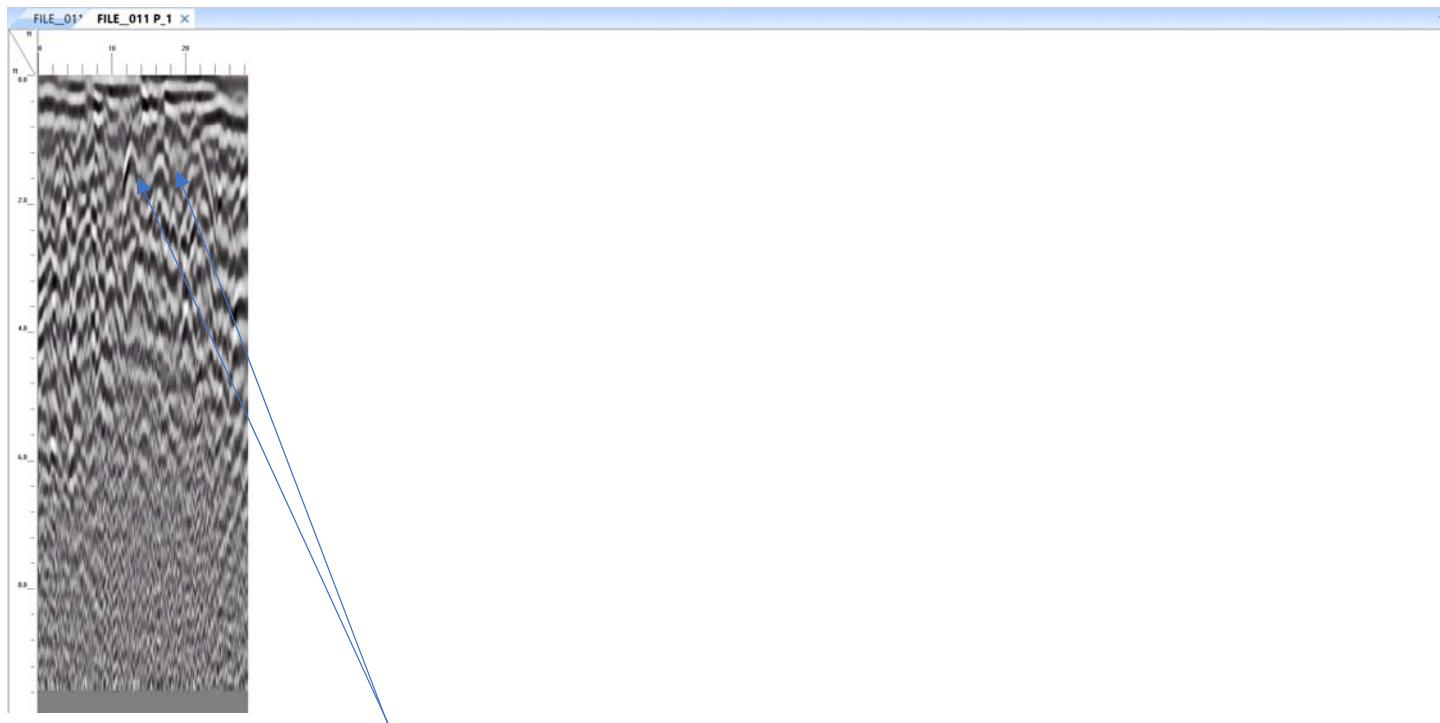
GPR Data: SB B-9, S-N



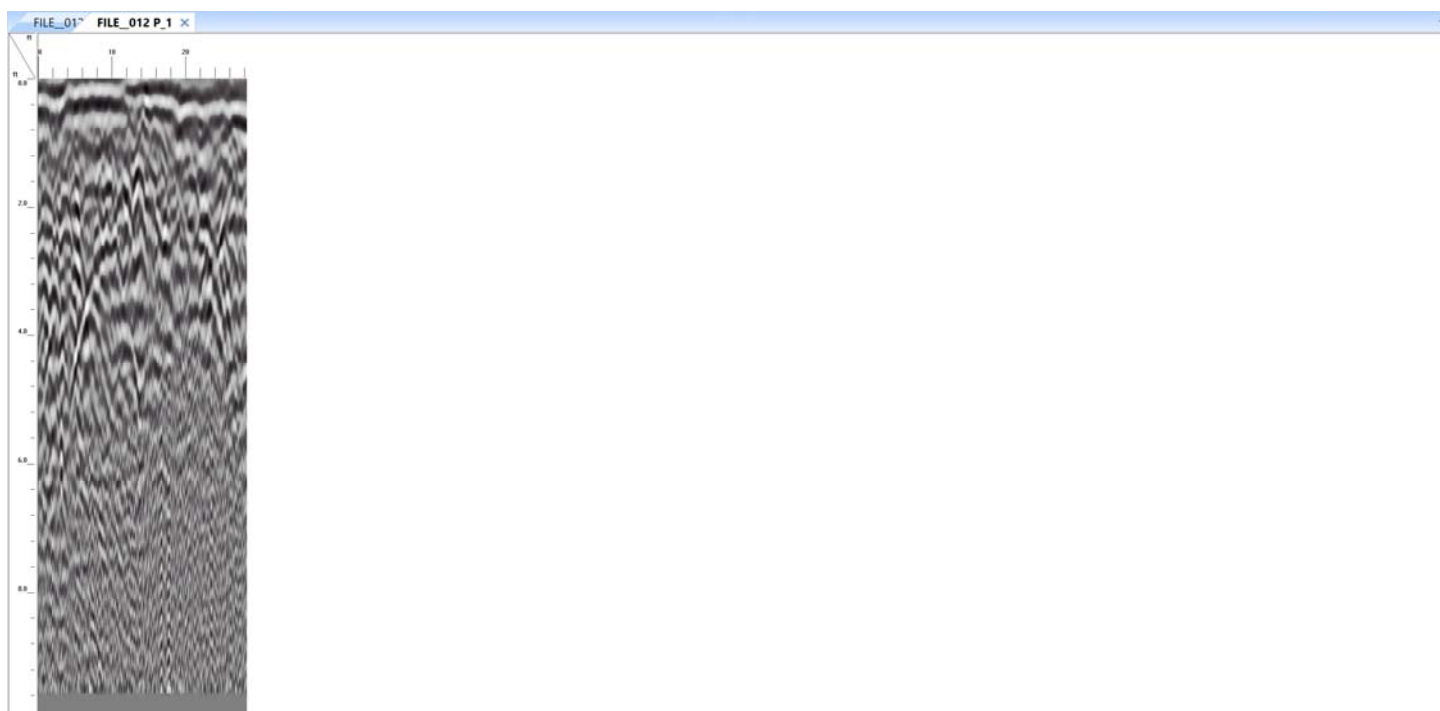
GPR Data: SB B-9, E-W



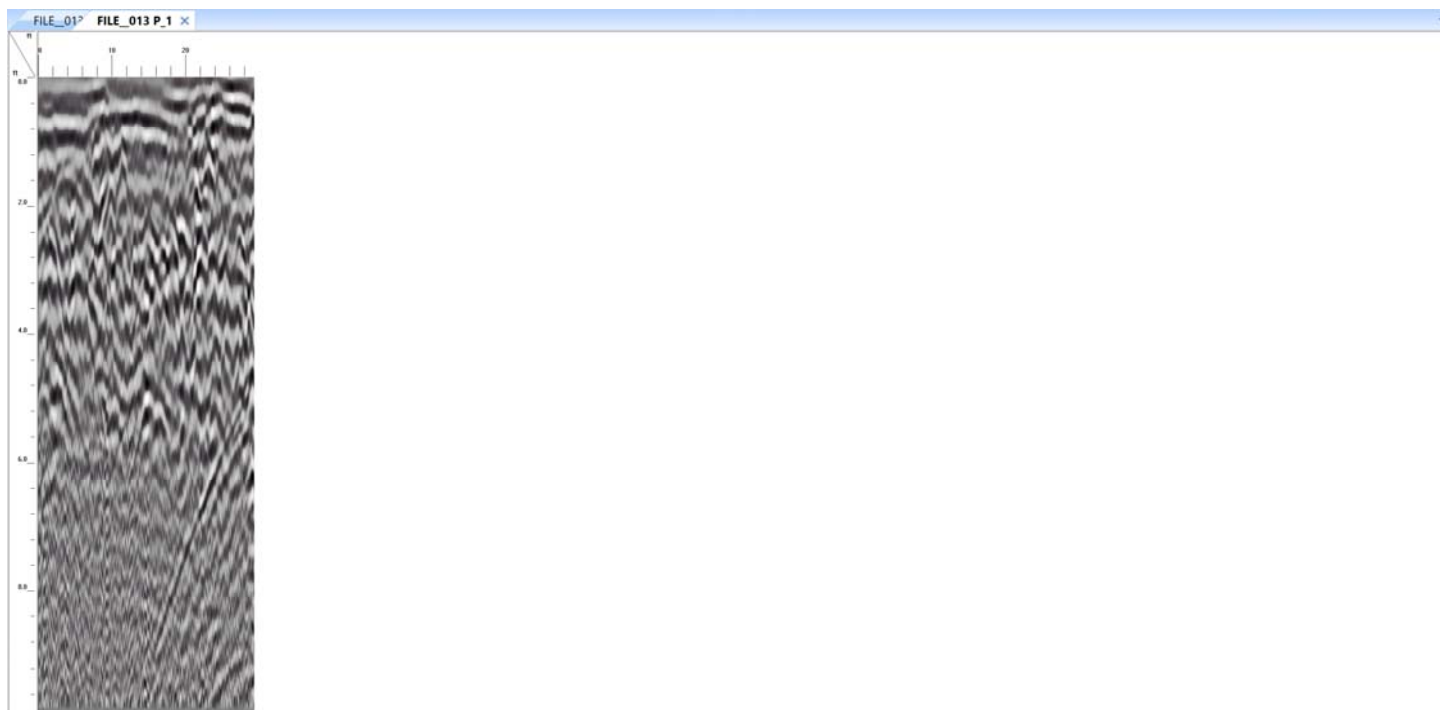
GPR Data: SB B-9, E-W



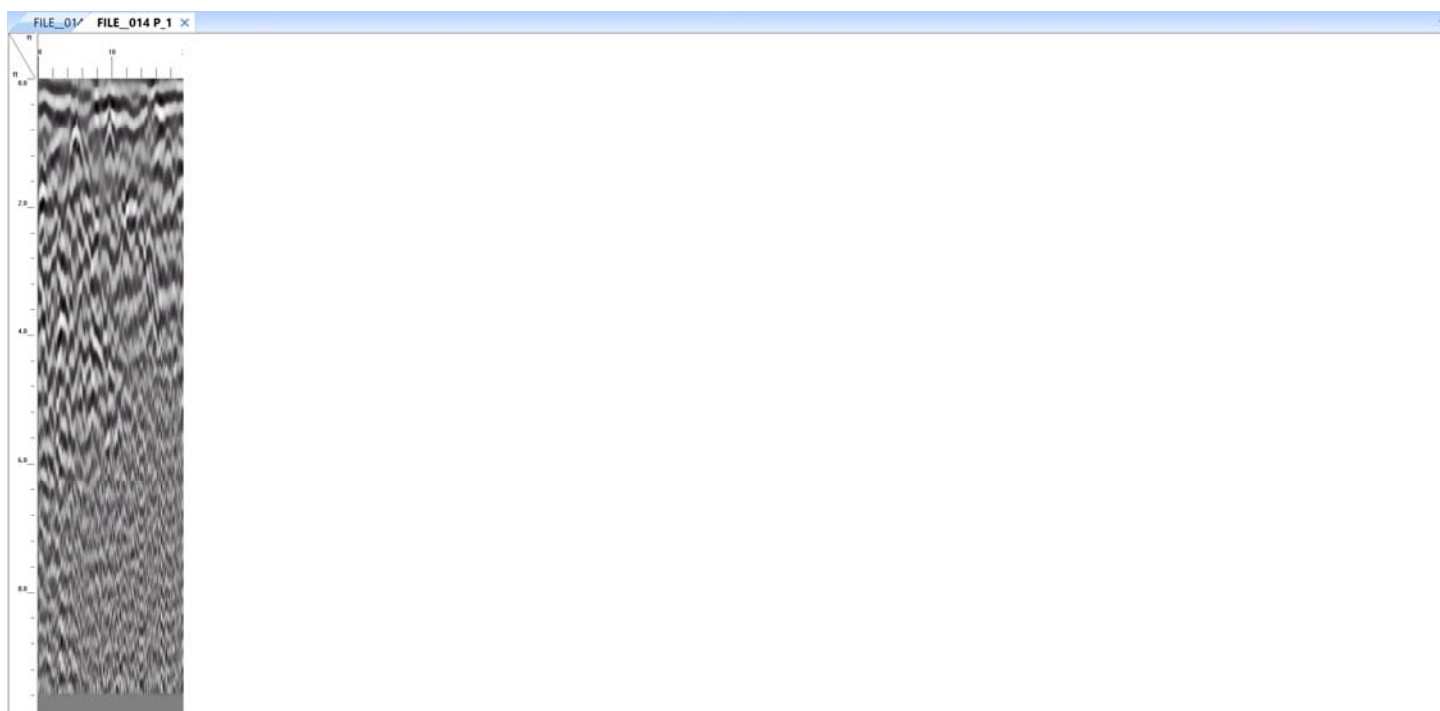
GPR Data: SB B-11, N-S, electric lines



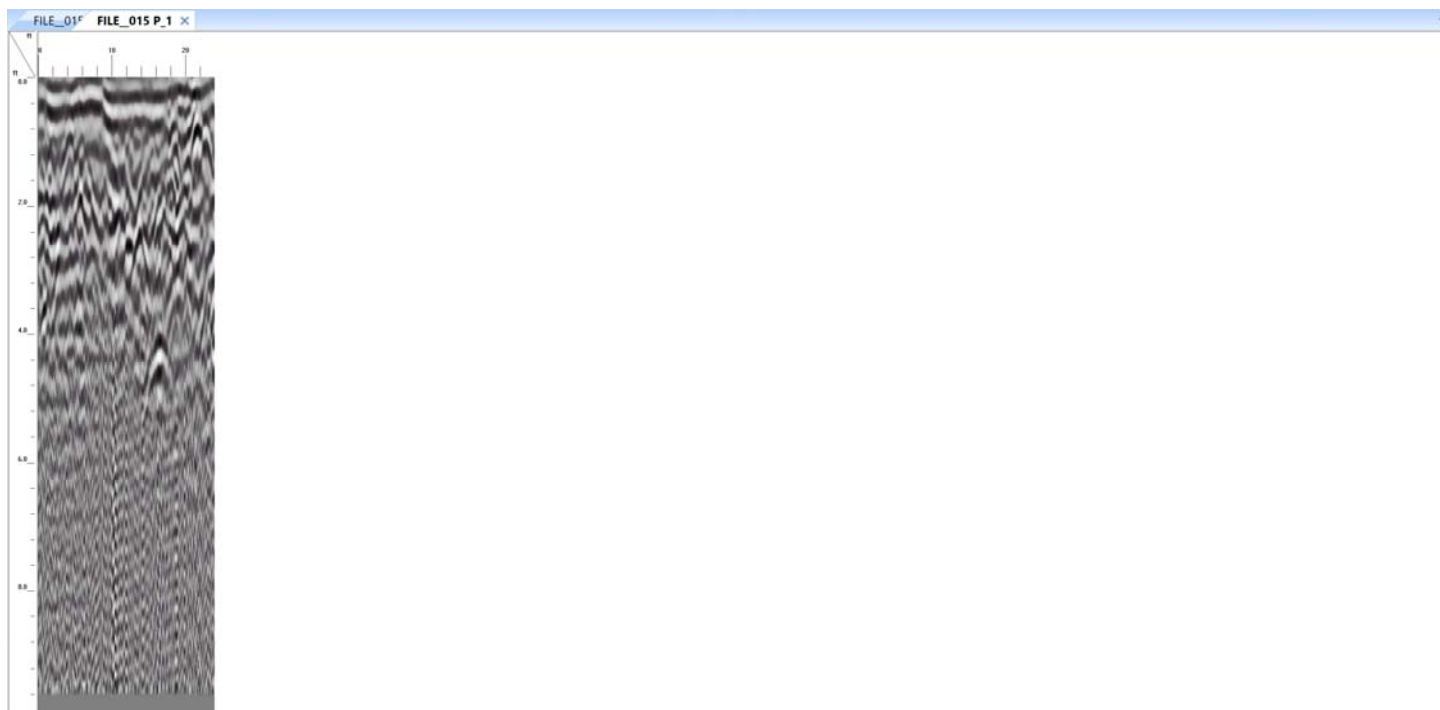
GPR Data: SB B-11, N-S



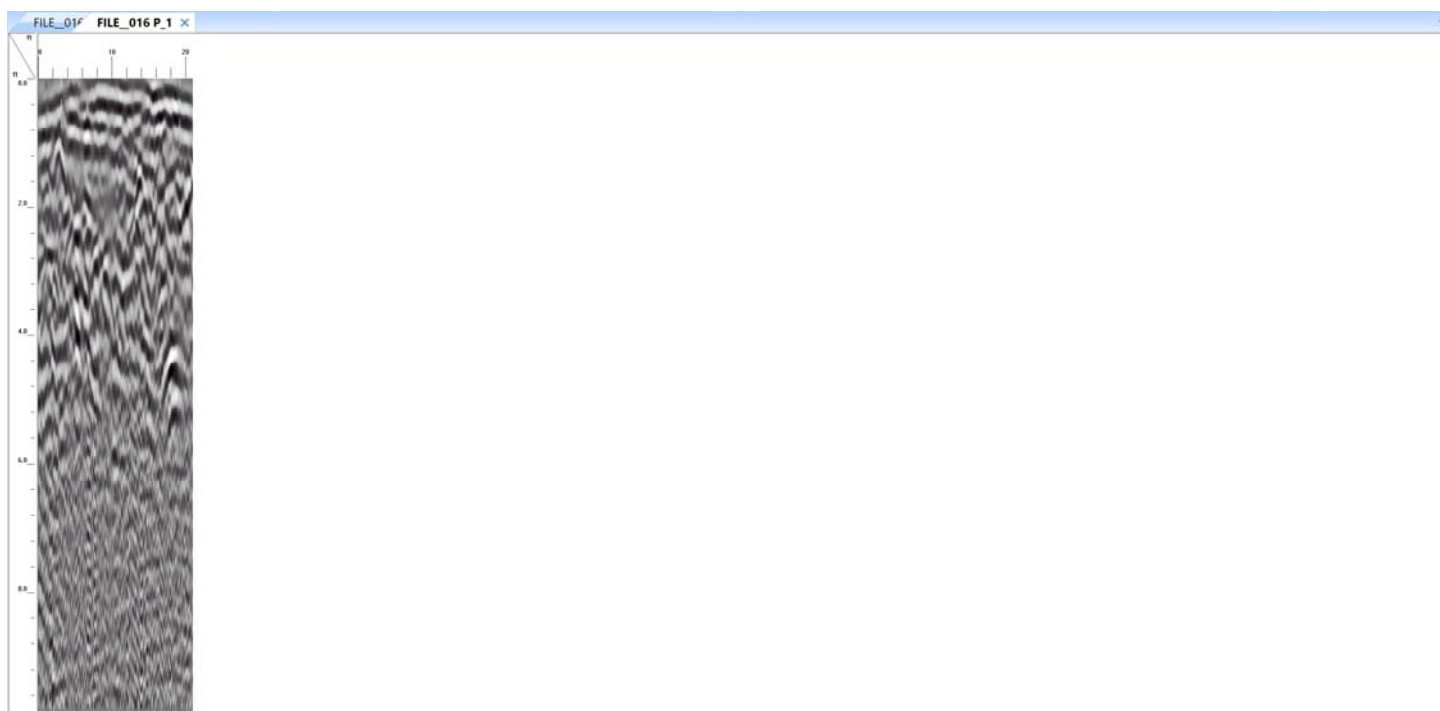
GPR Data: SB B-11, S-N



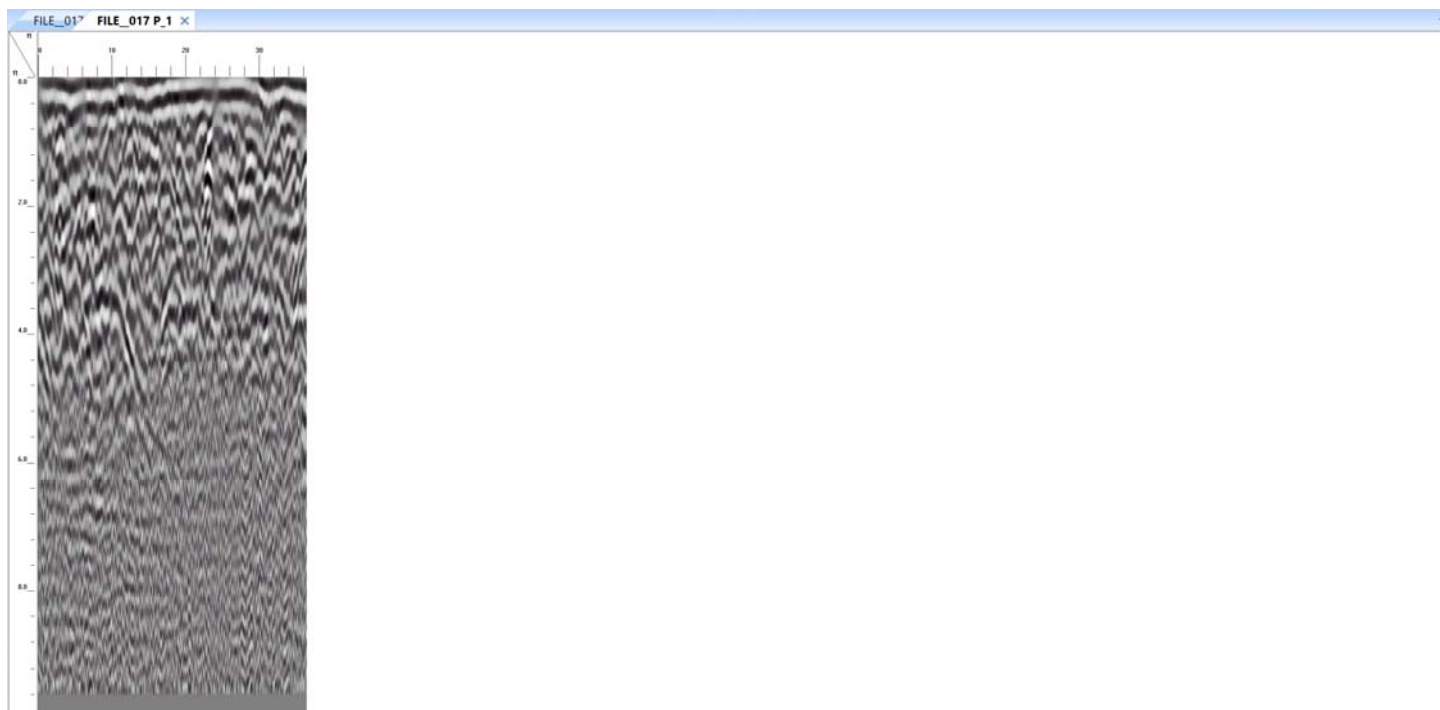
GPR Data: SB B-11, W-E



GPR Data: SB B-11, E-W



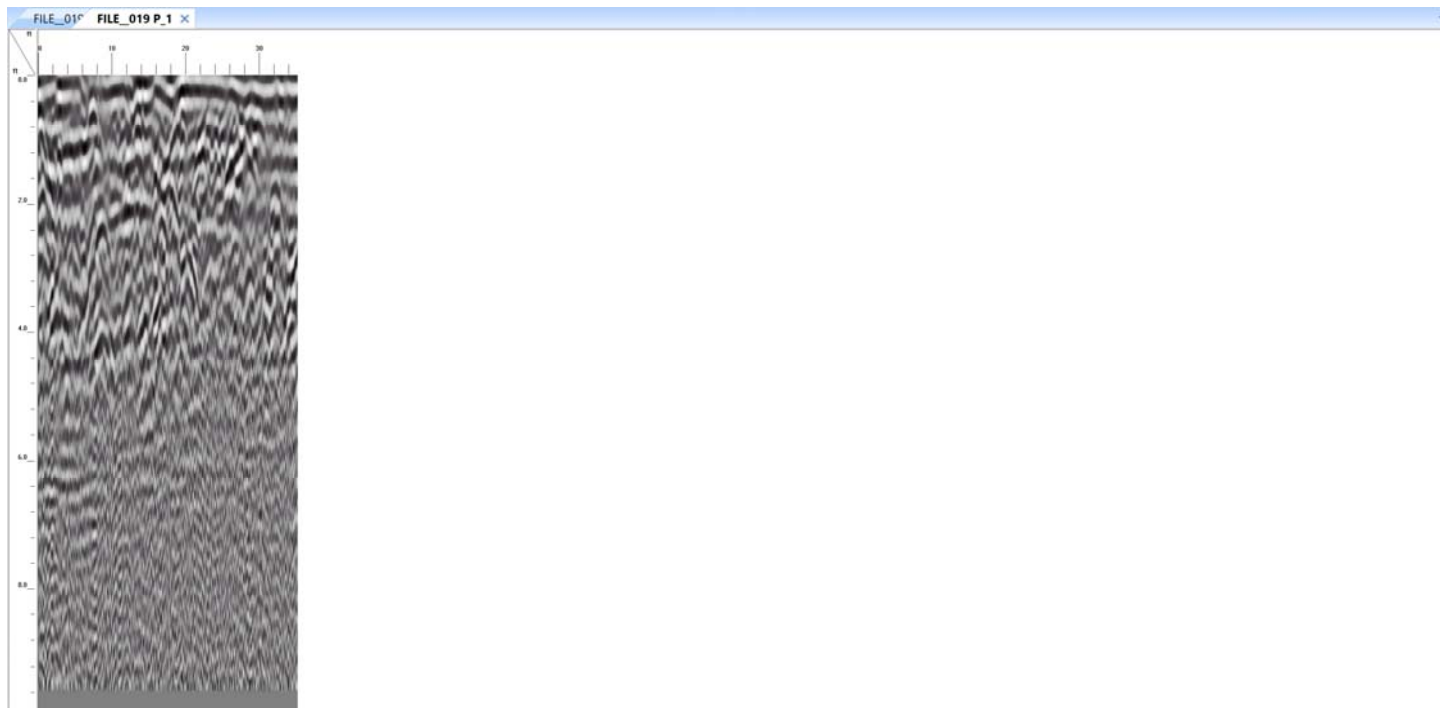
GPR Data: SB B-11, W-E



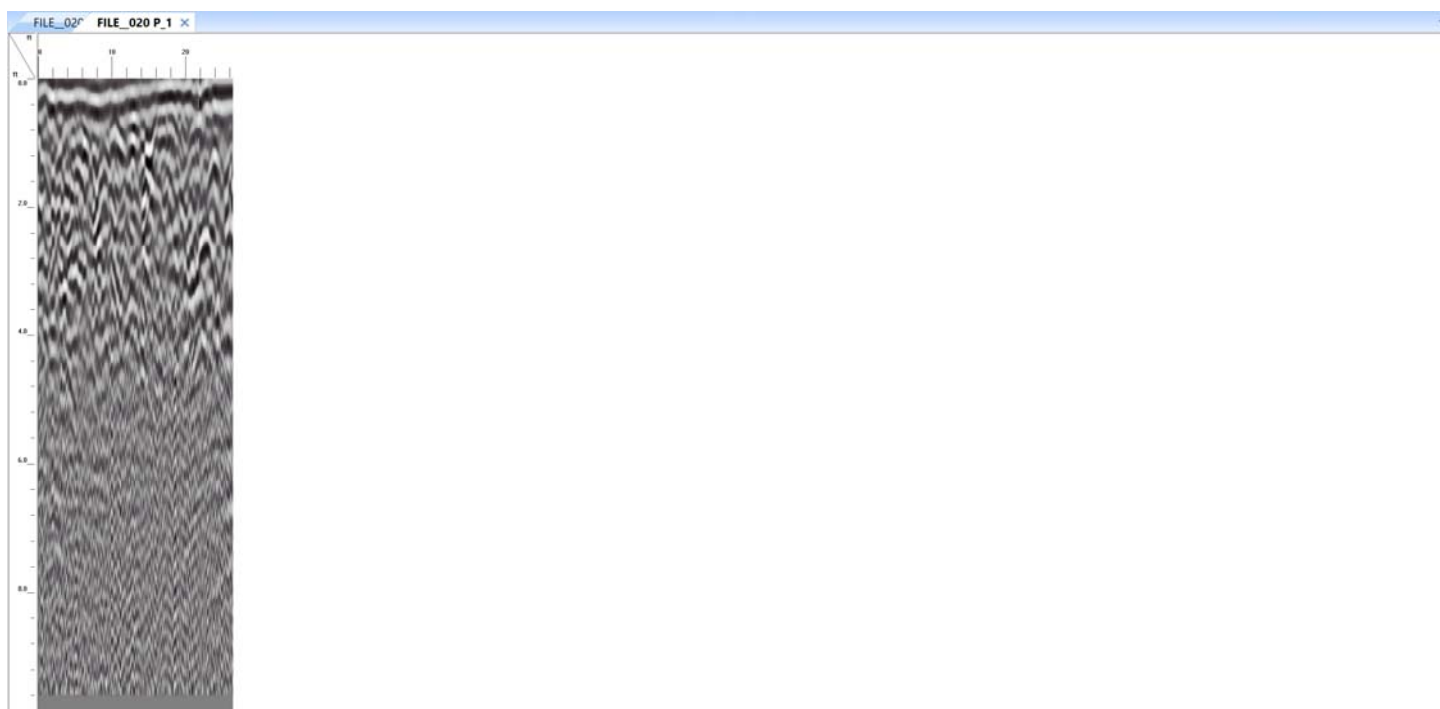
GPR Data: SB B-10, W-E



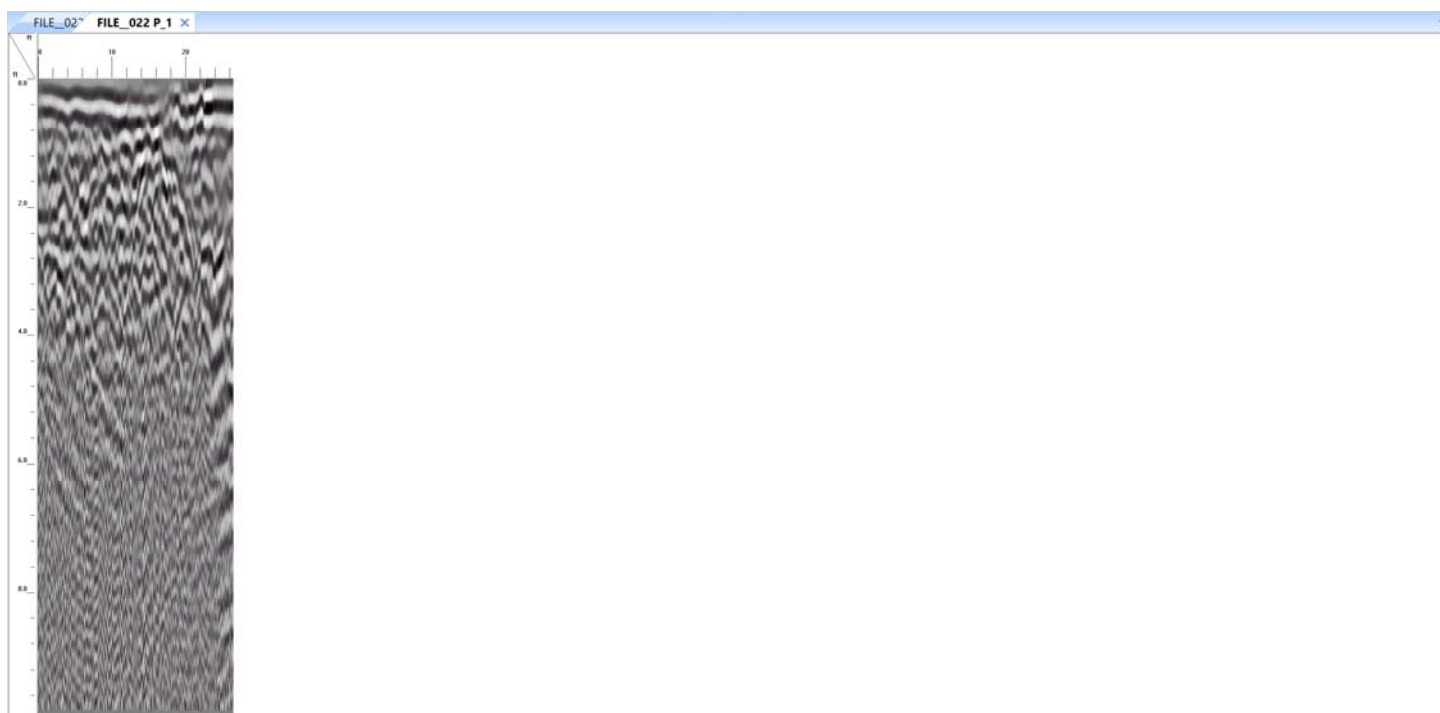
GPR Data: SB B-10, W-E, electric lines

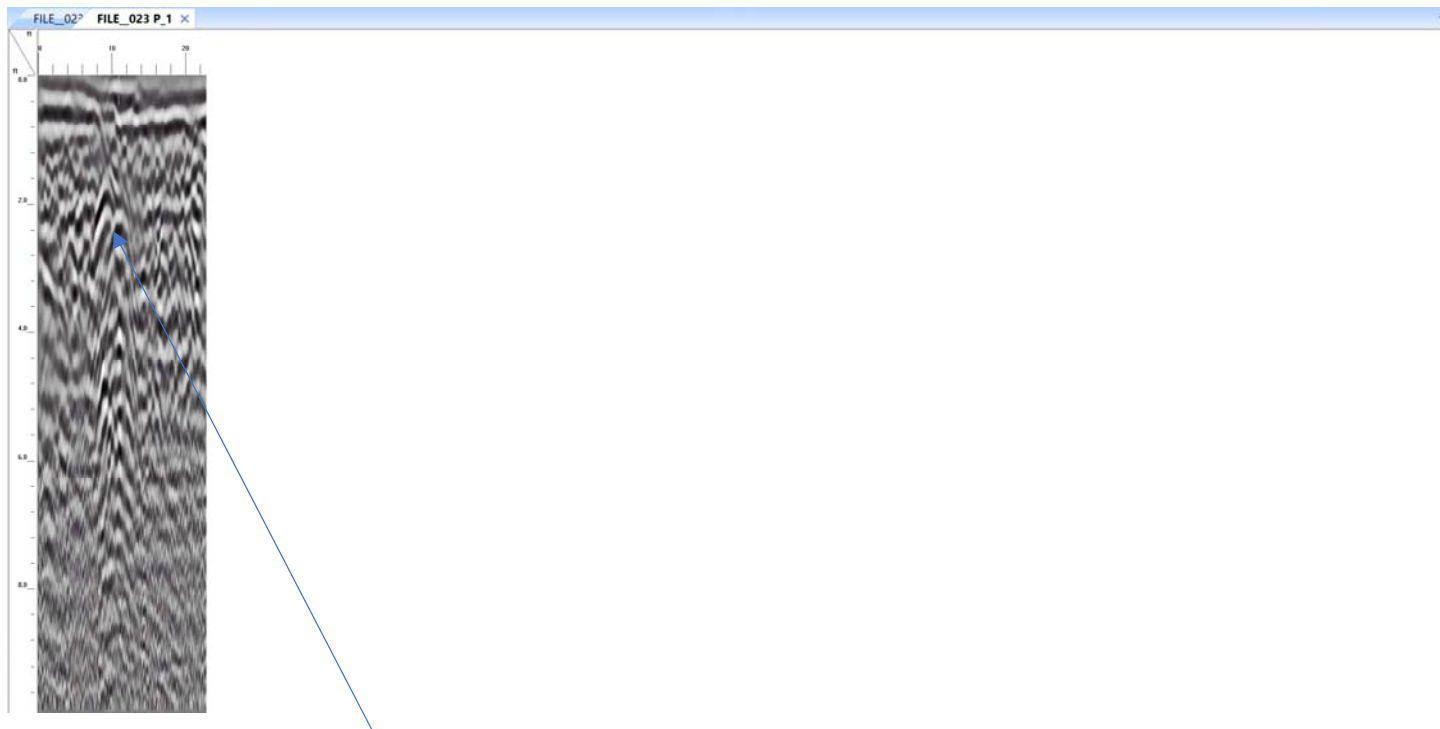


GPR Data: SB B-10, E-W

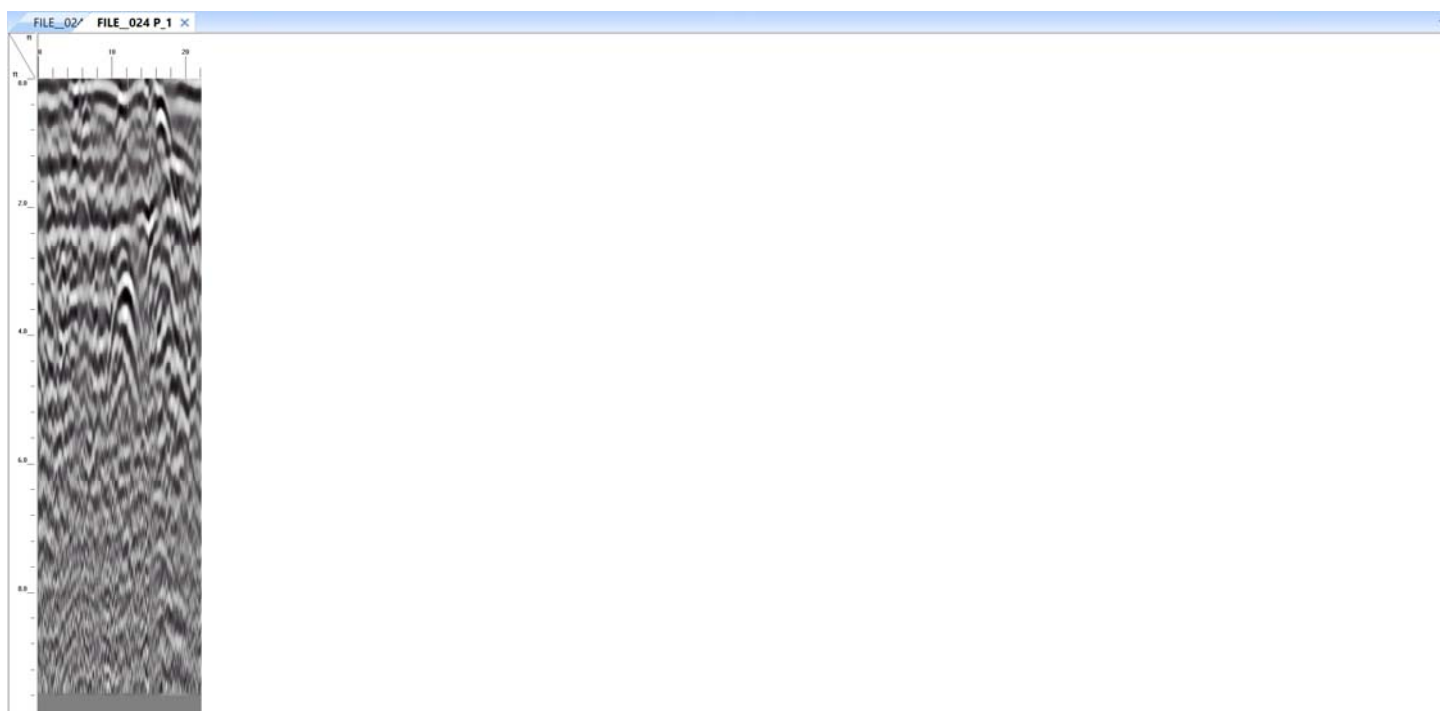


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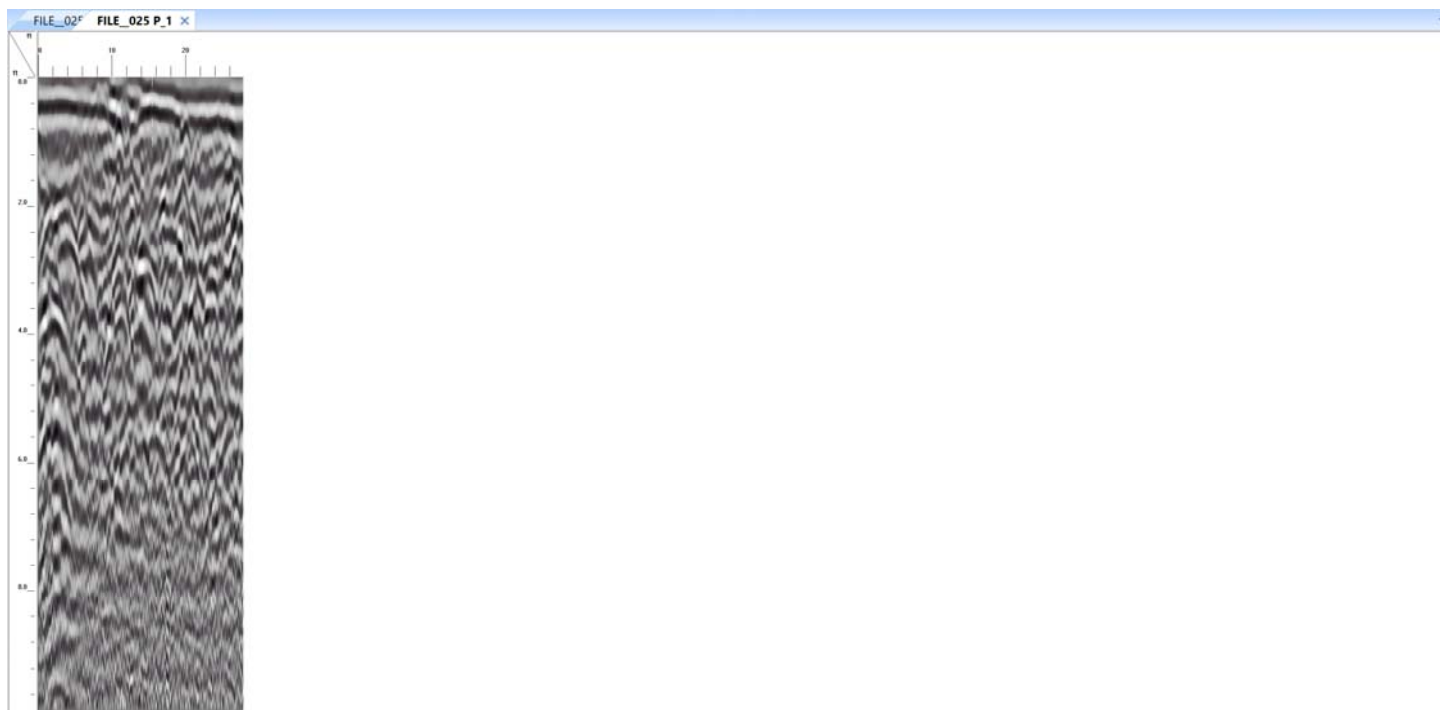




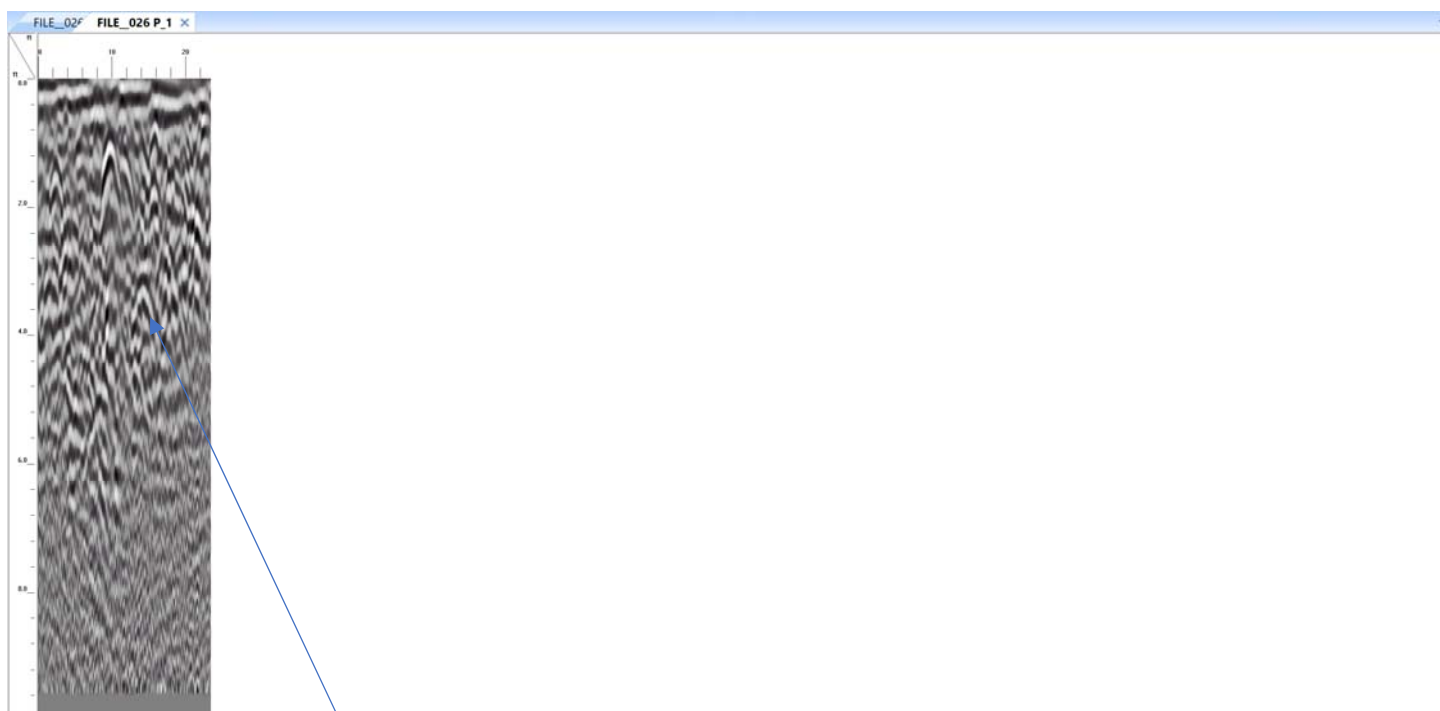
GPR Data: SB B-7, S-N, electric lines



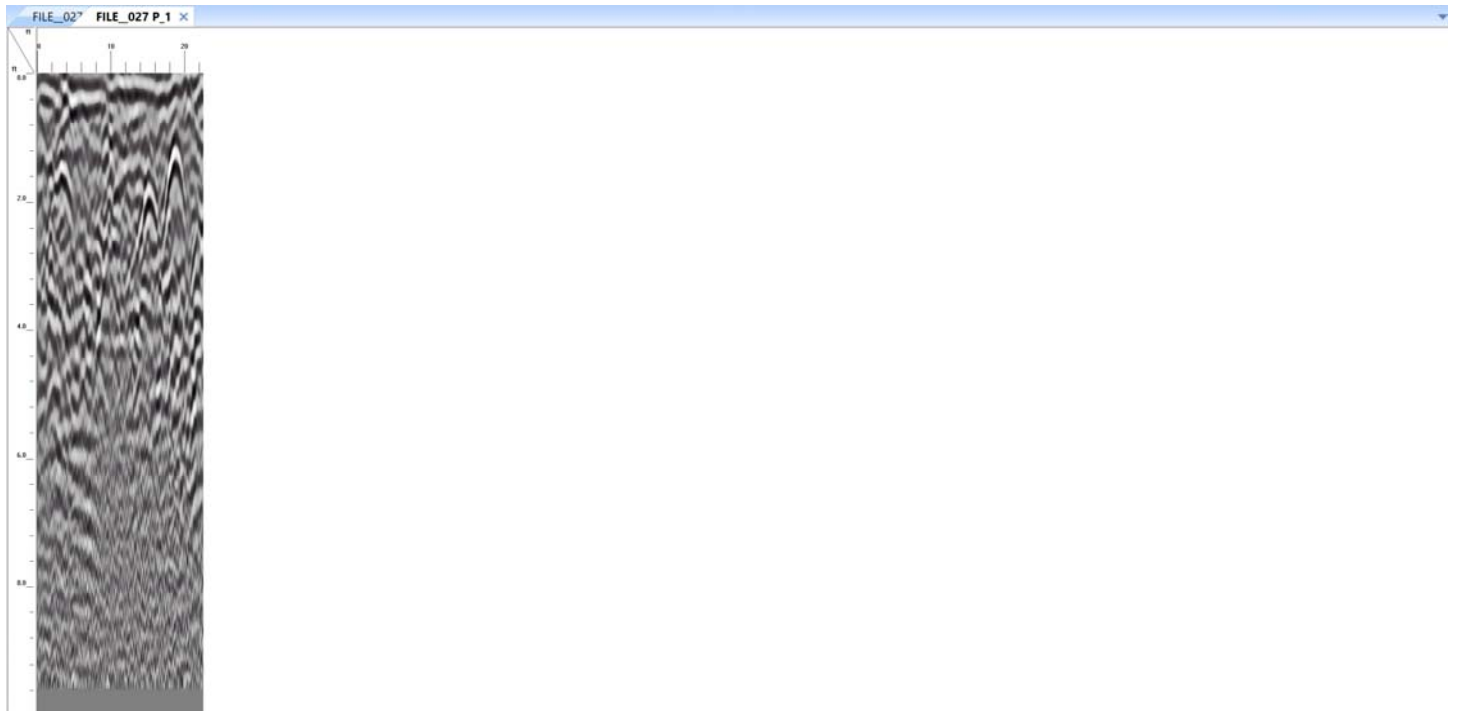
GPR Data: SB B-7, N-S



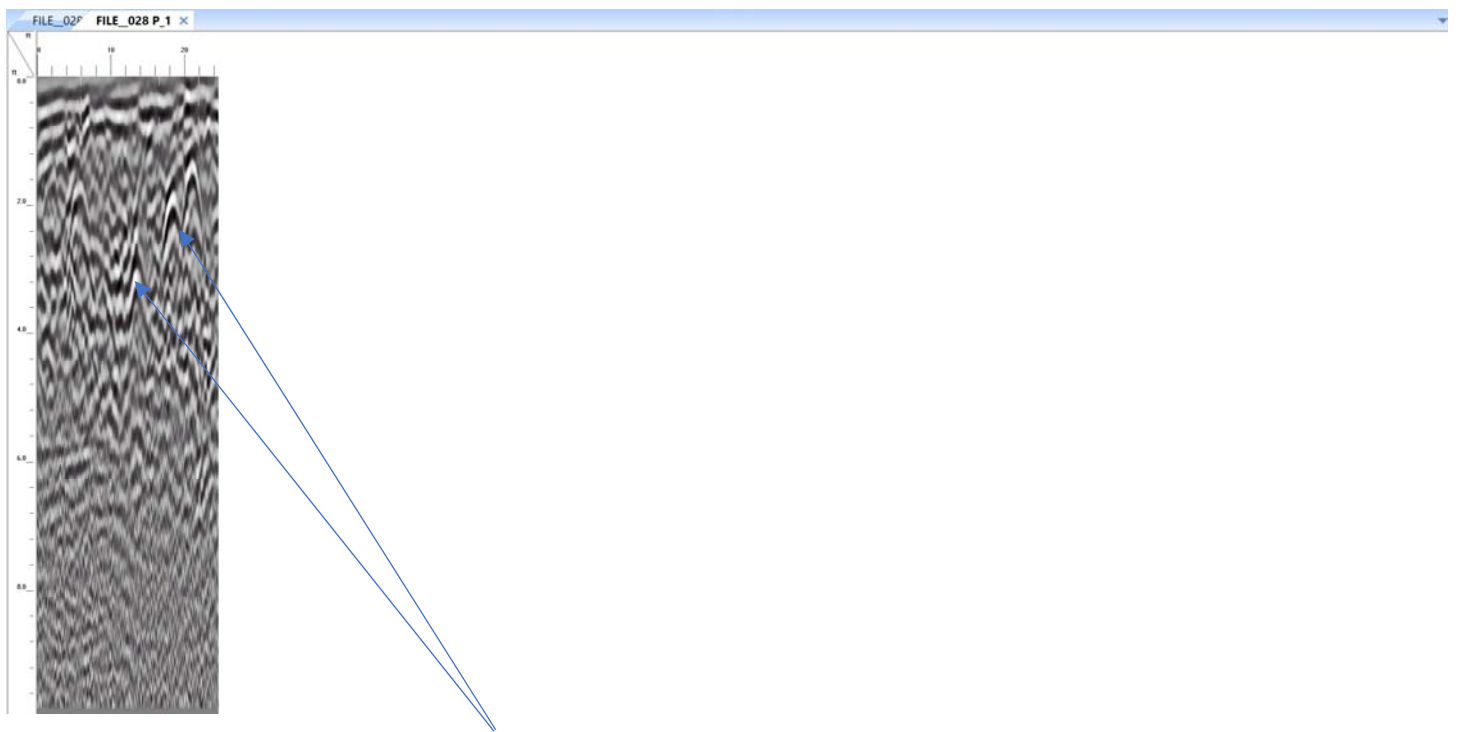
GPR Data: SB B-7, S-N



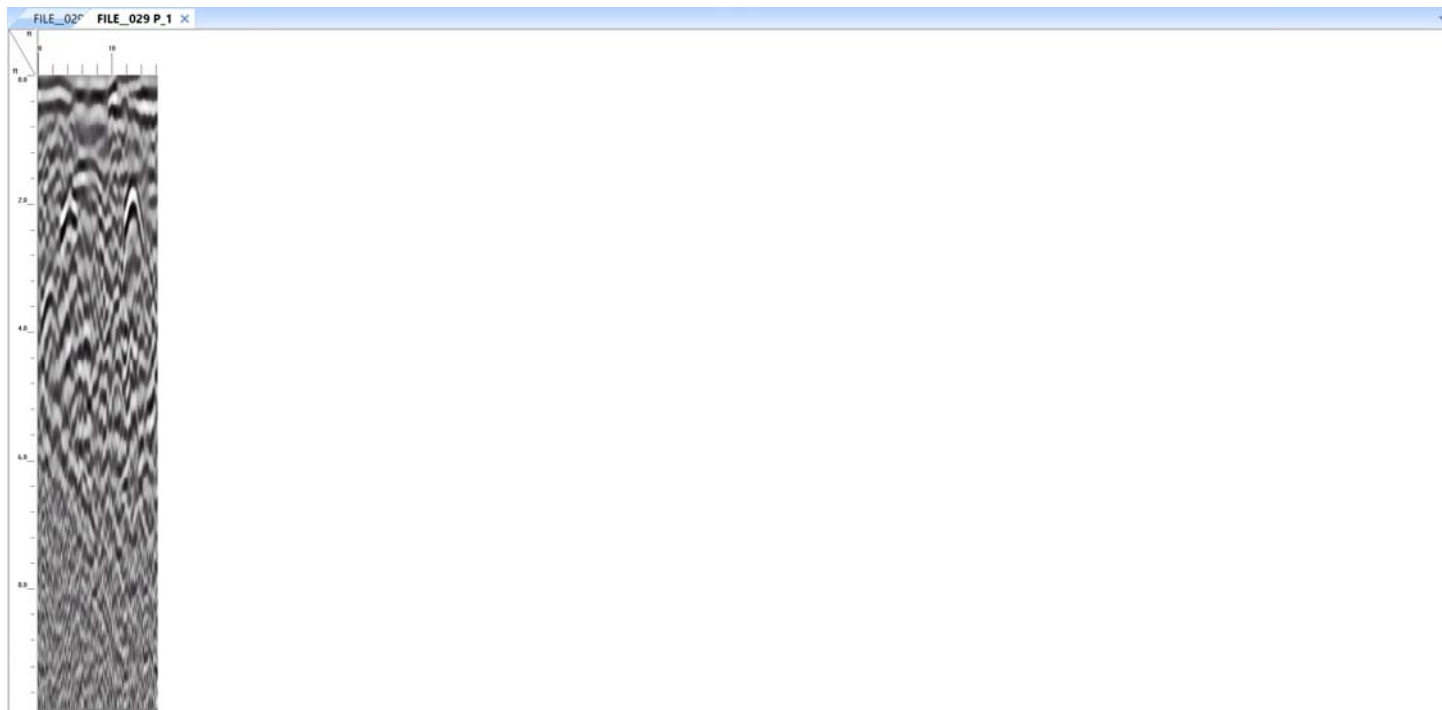
GPR Data: SB B-7, E-W, drain line



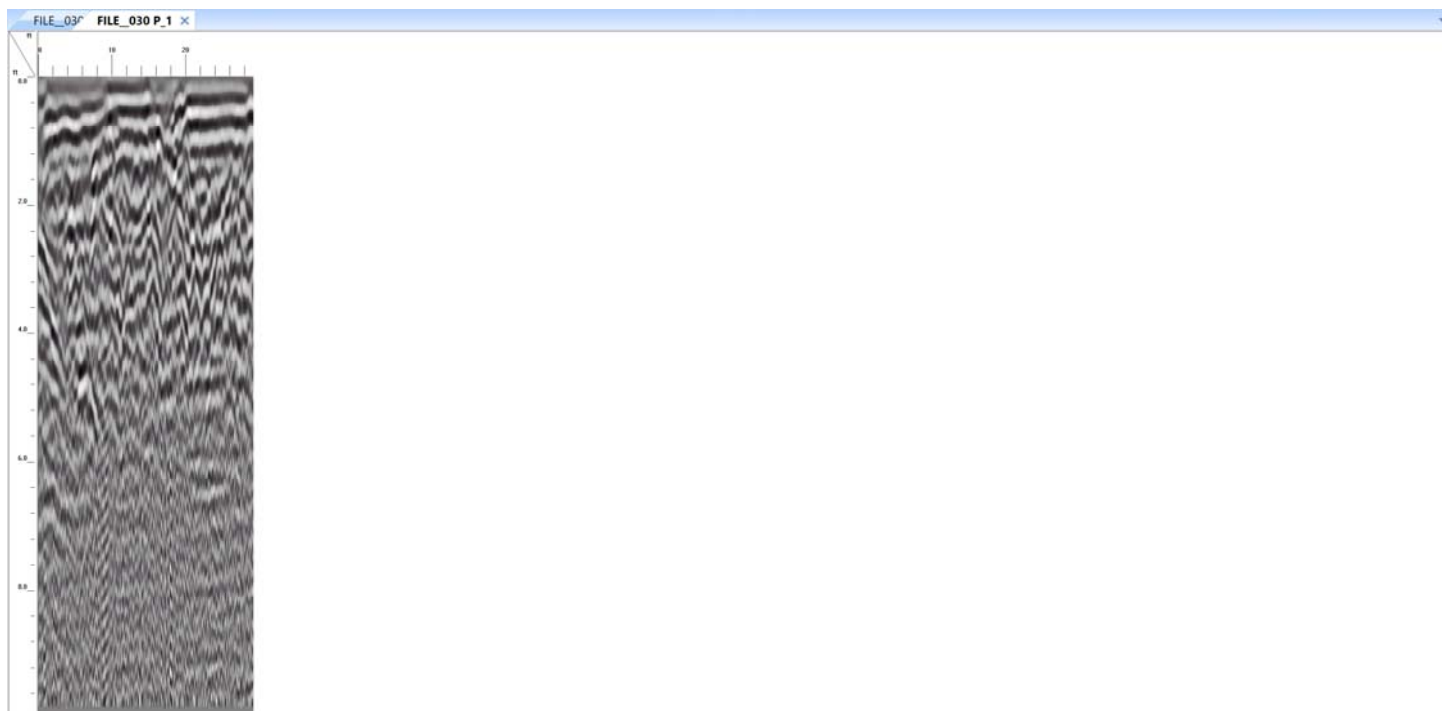
GPR Data: SB B-7, W-E



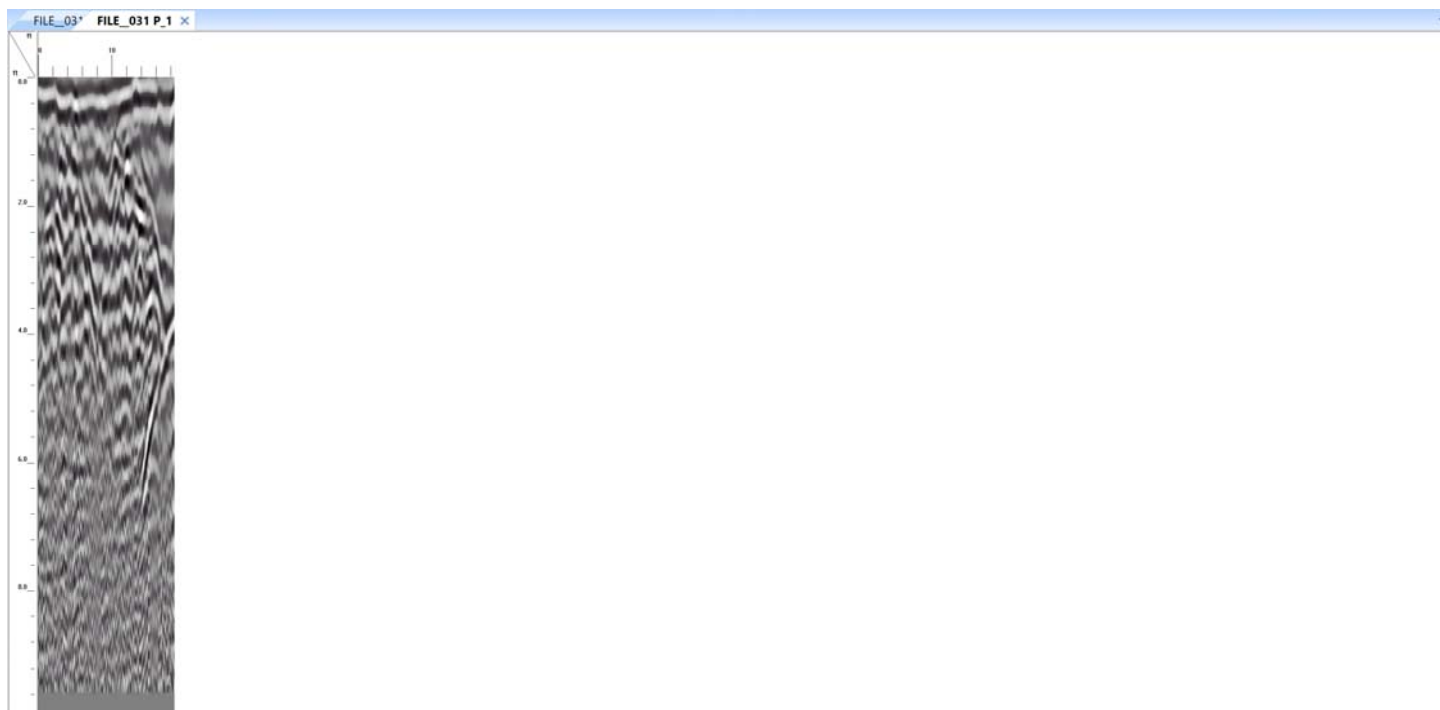
GPR Data: SB B-7, W-E, drain line, electric lines



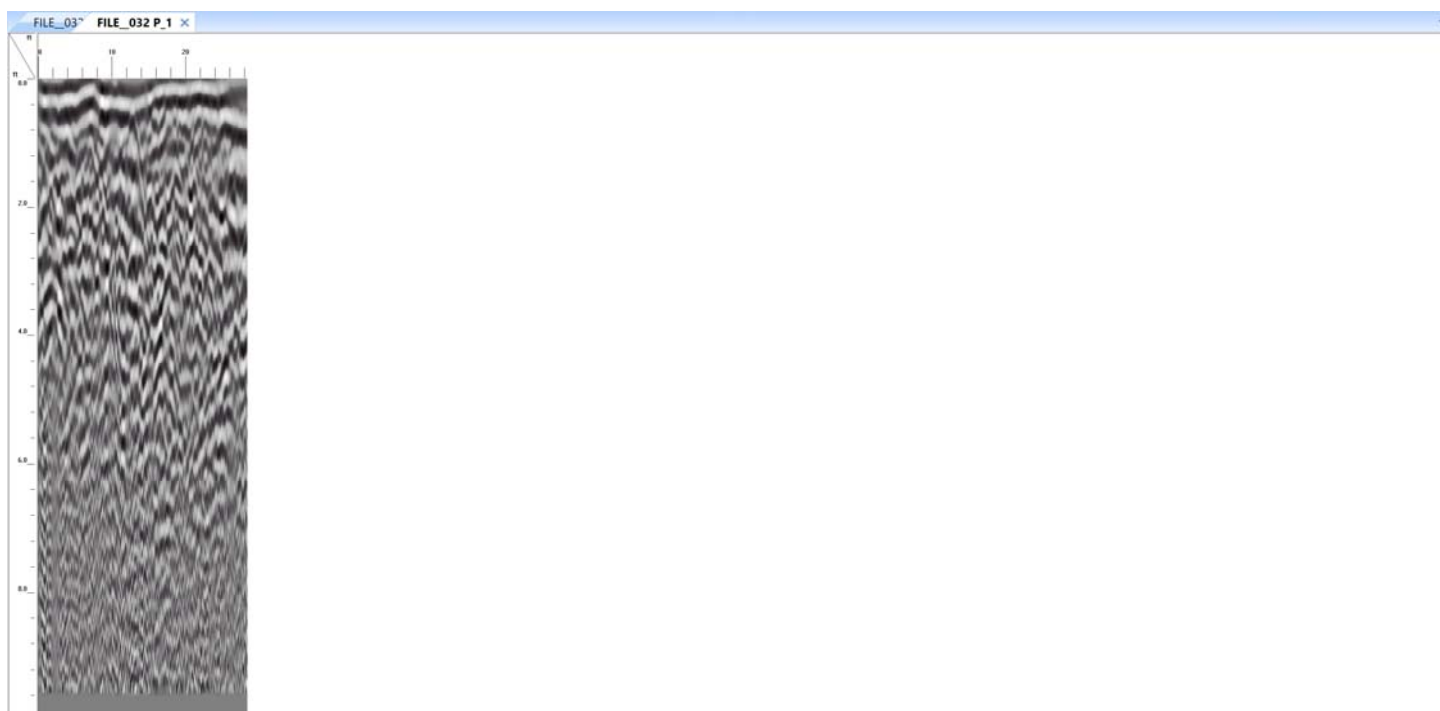
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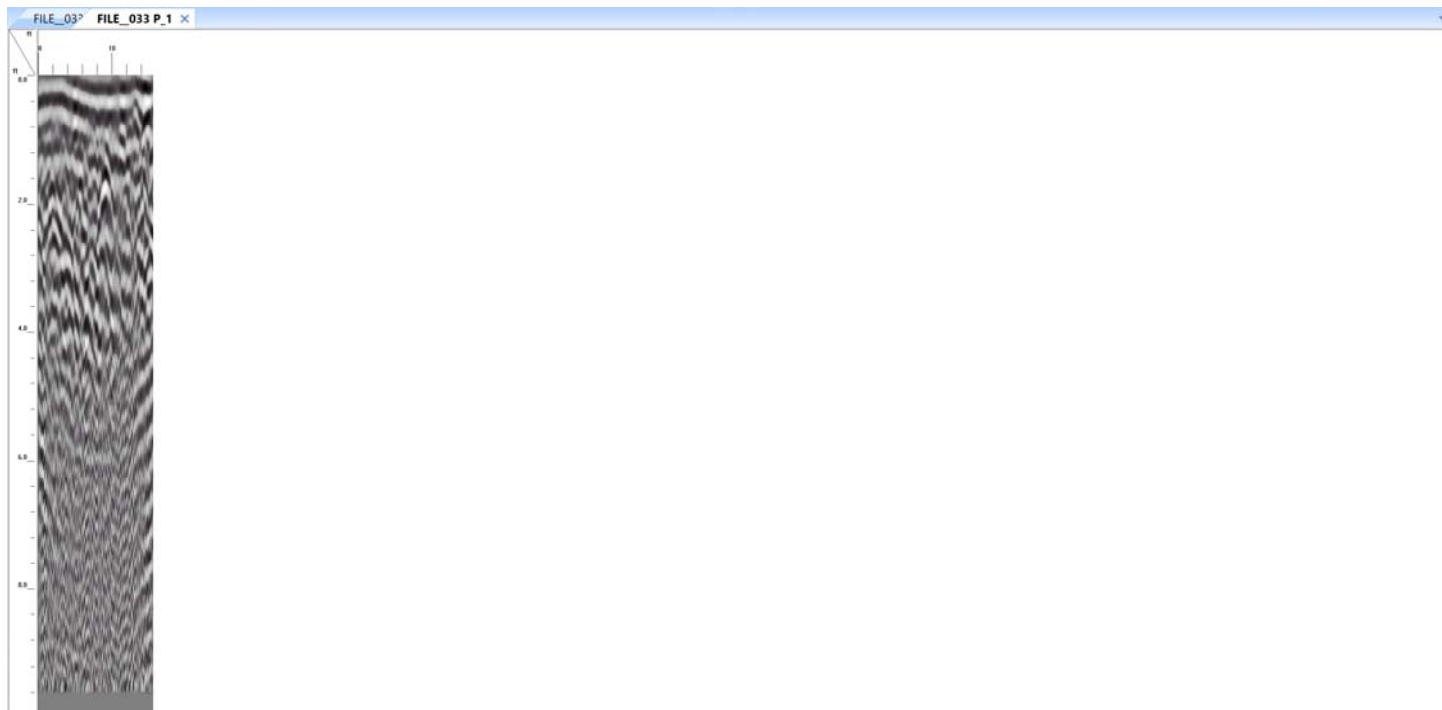
GPR Data: SB B-8, W-E



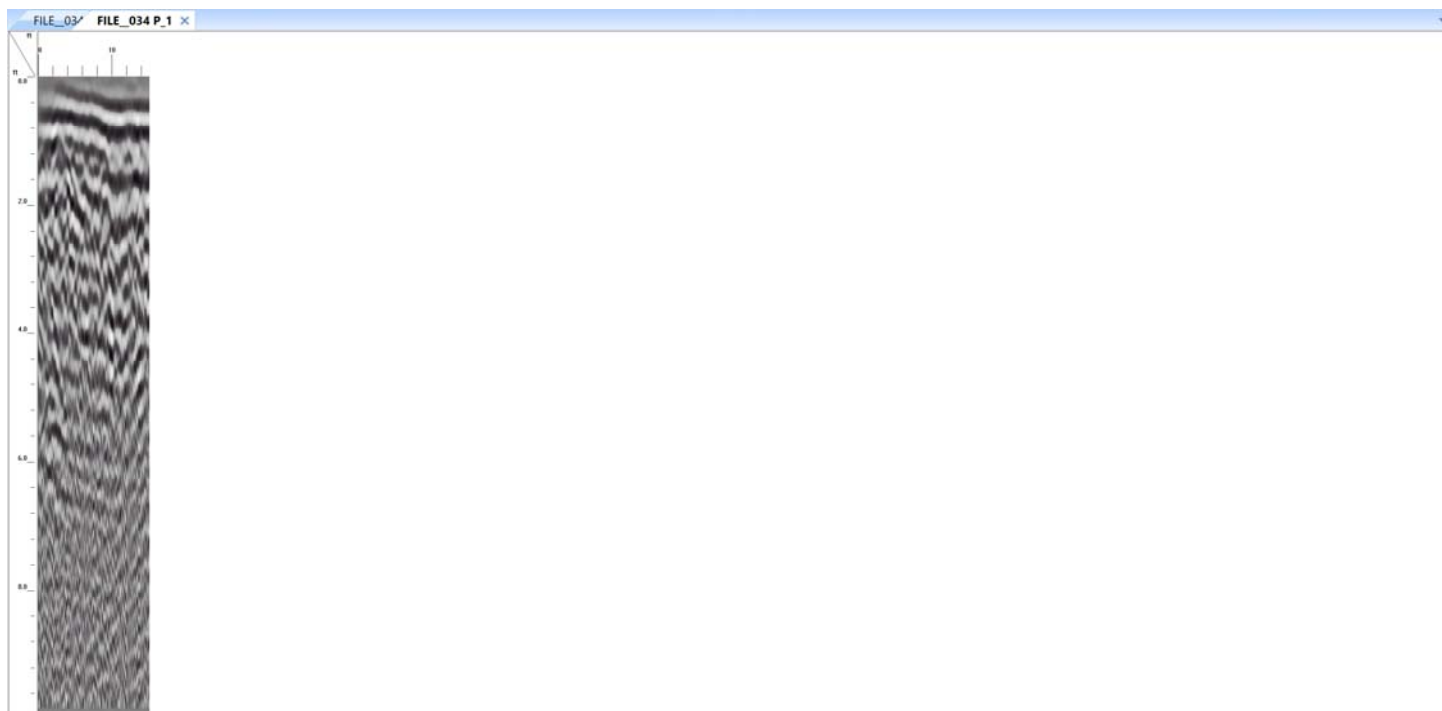
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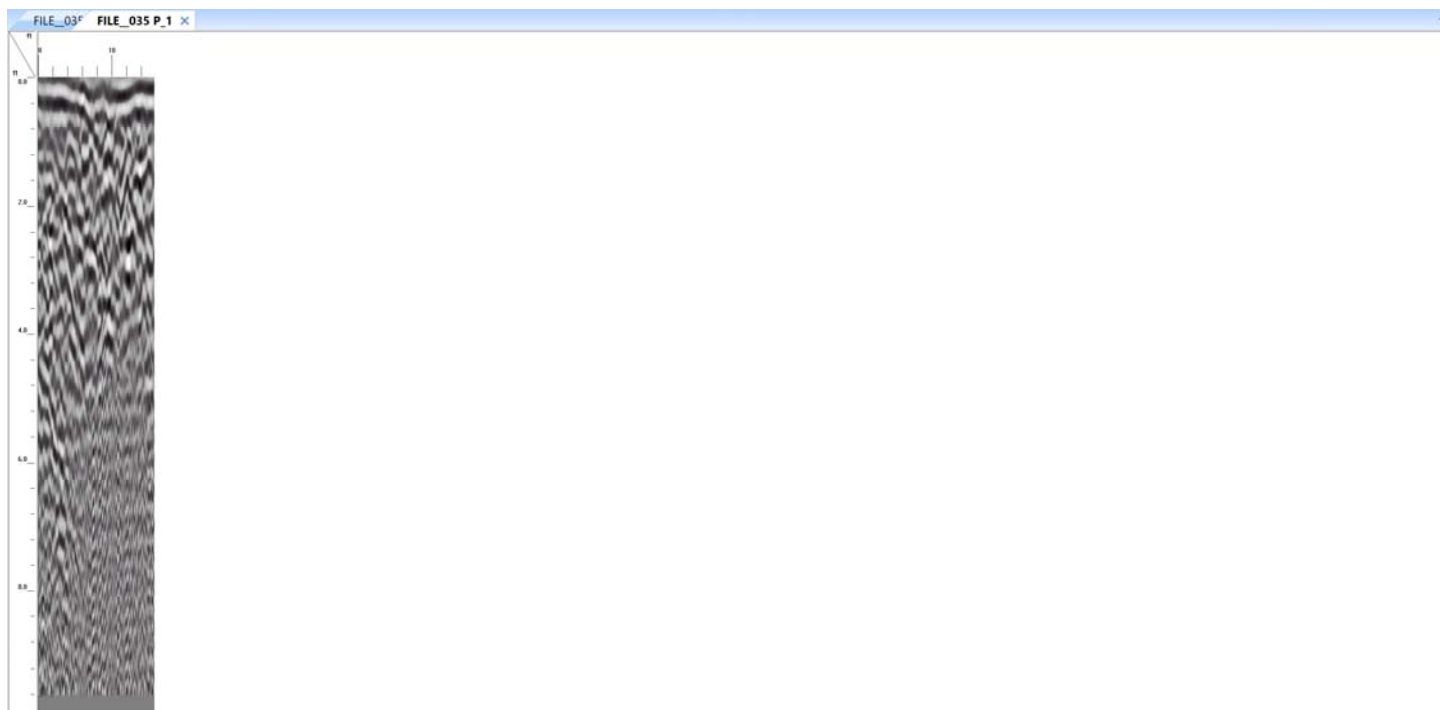
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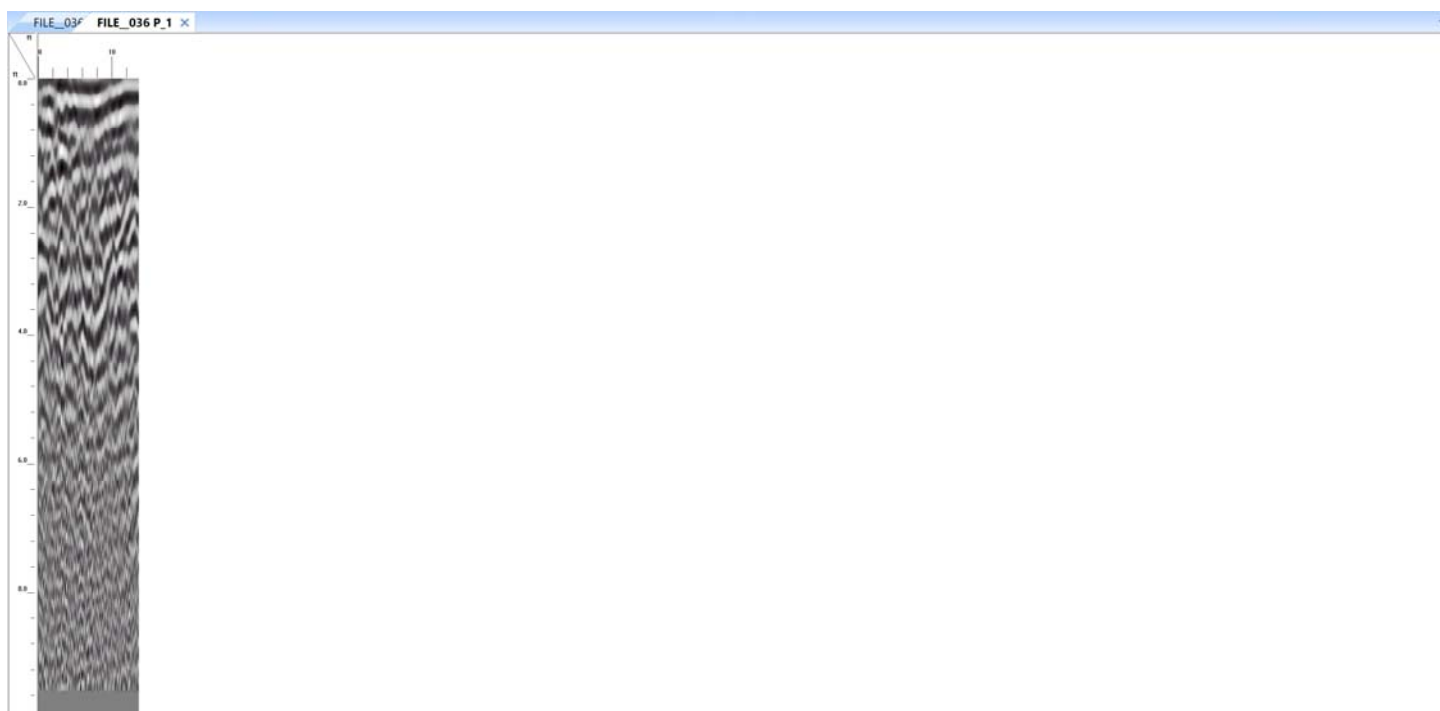
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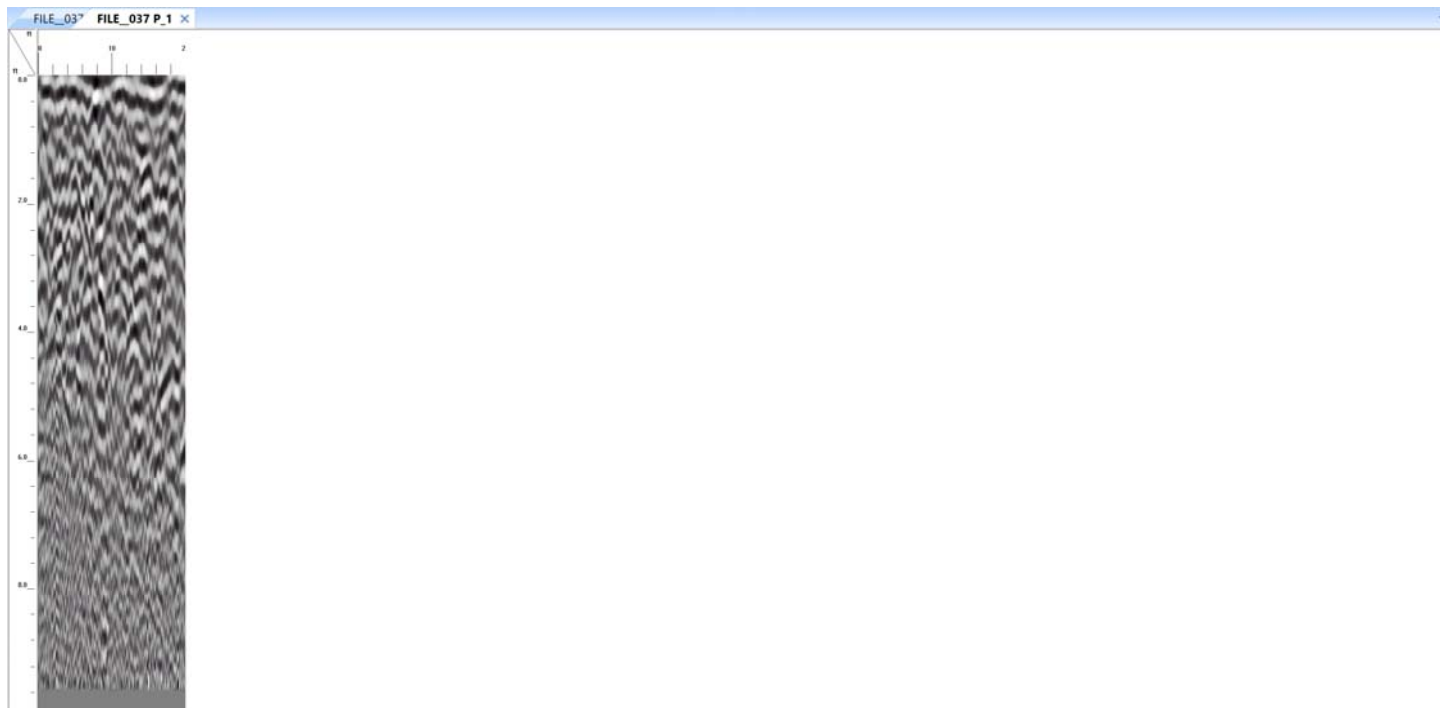
GPR Data: SB B-8, N-S



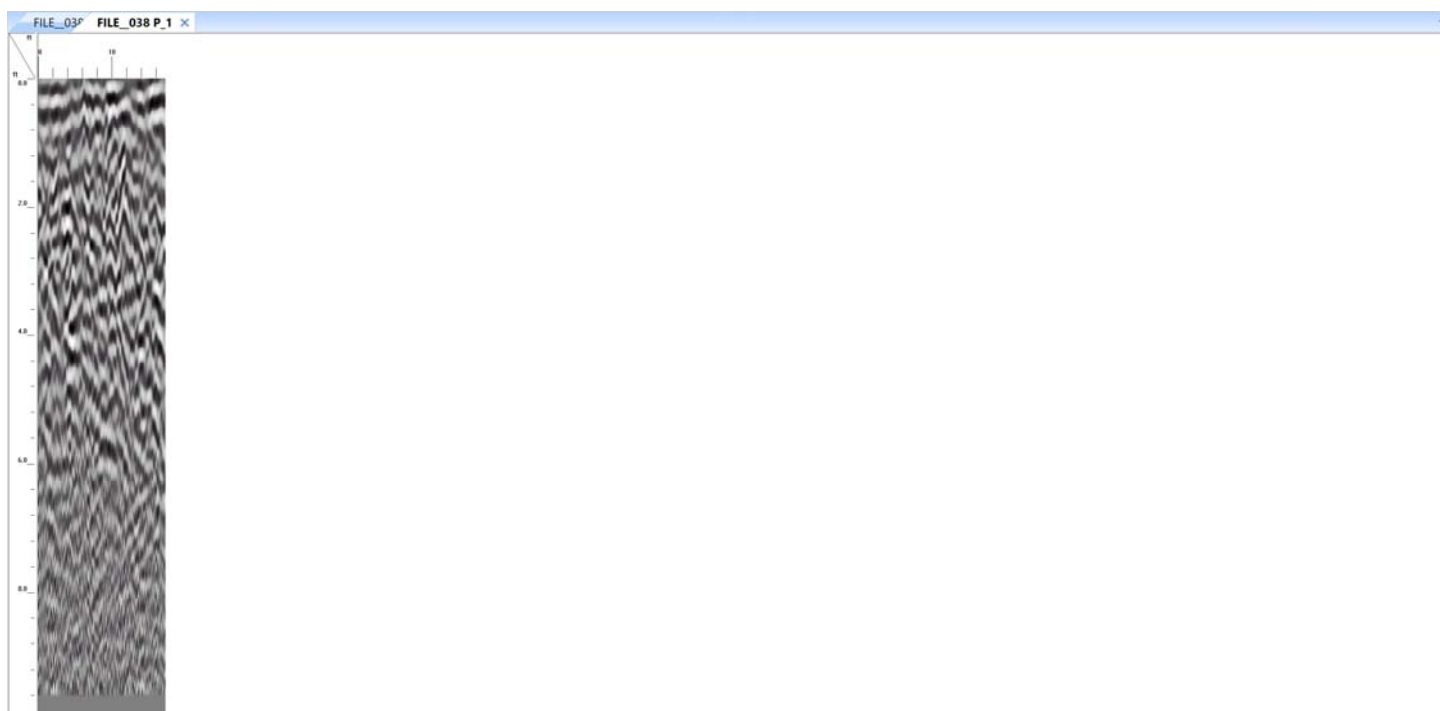
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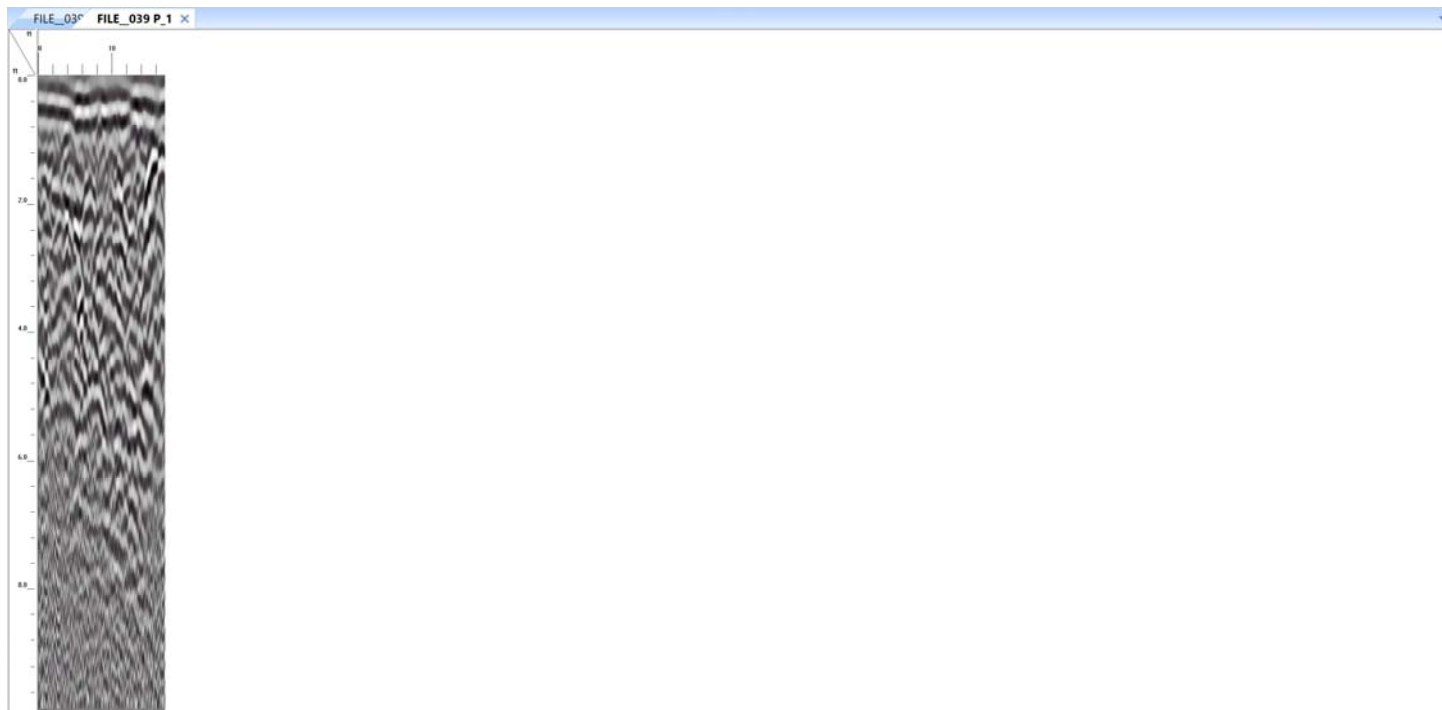
GPR Data: SB B-8, S-N



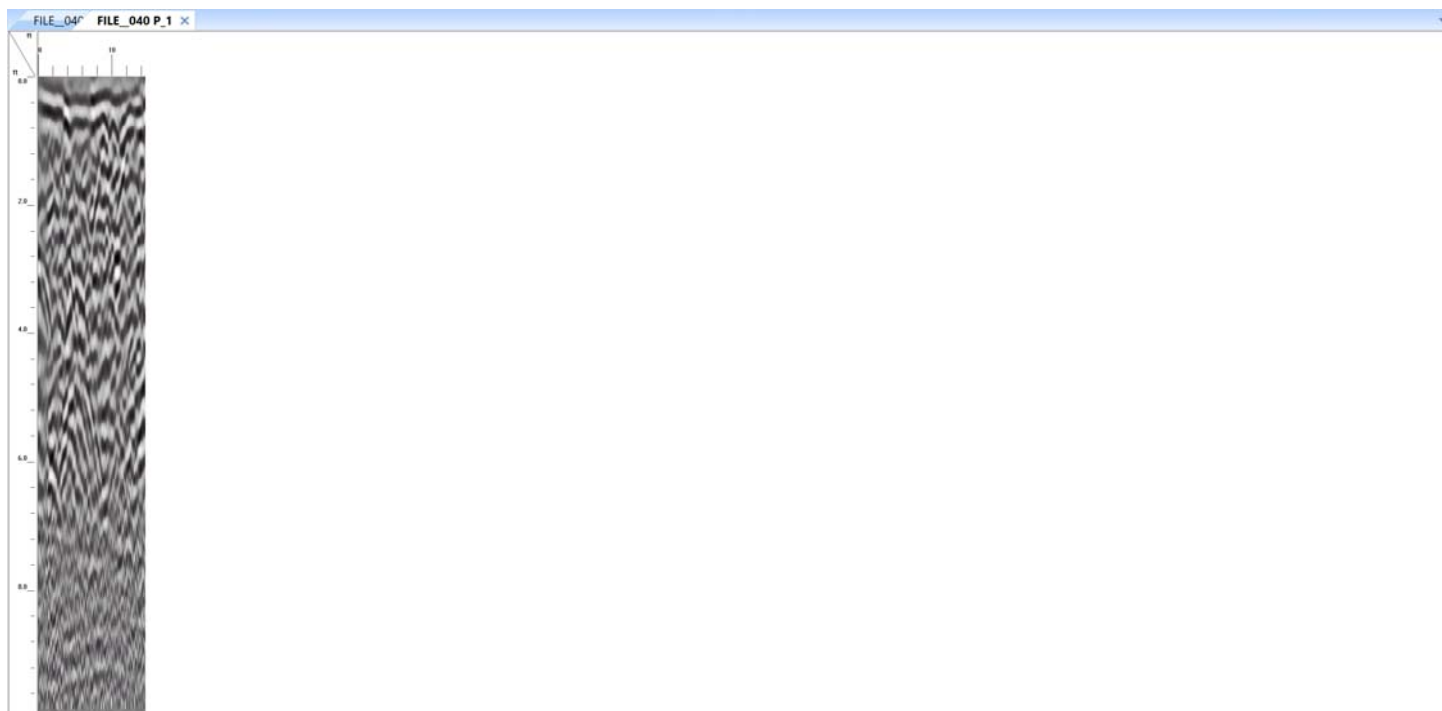
GPR Data: SB B-7, new area, E-W



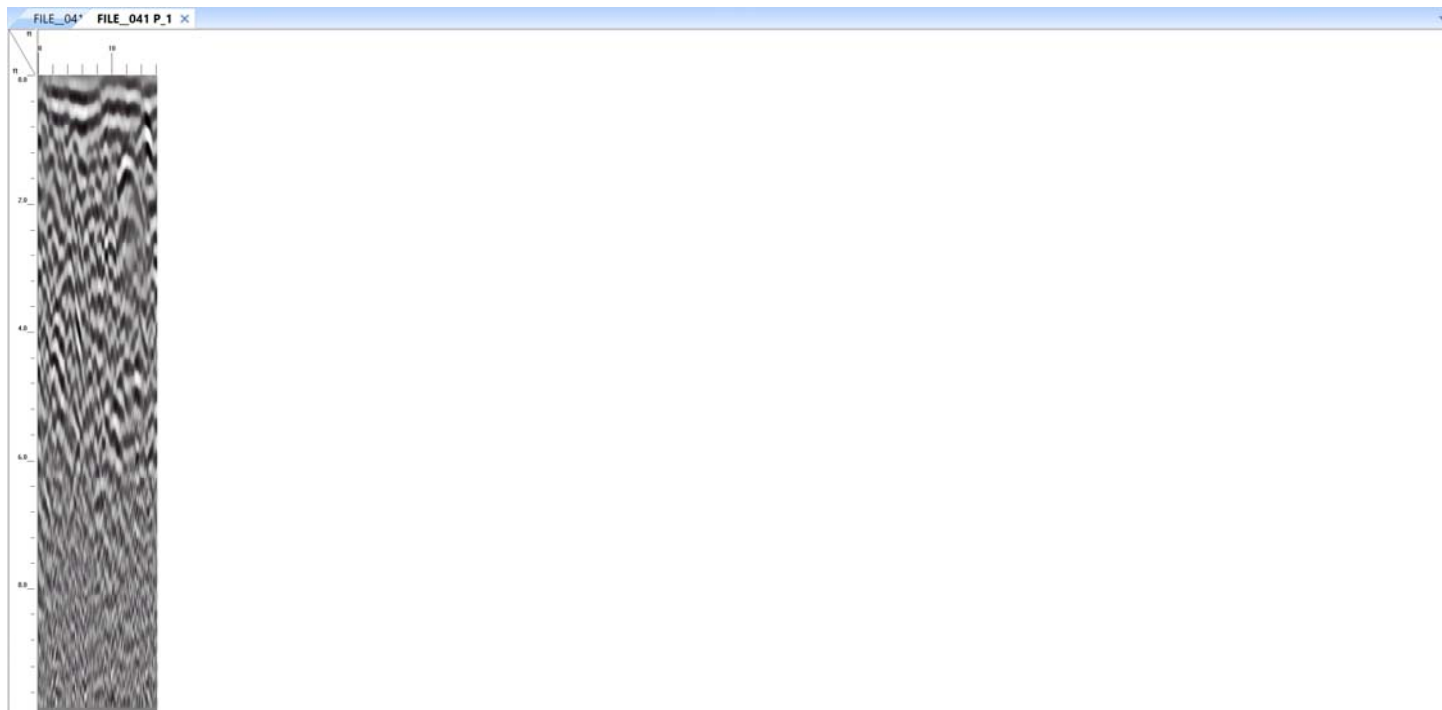
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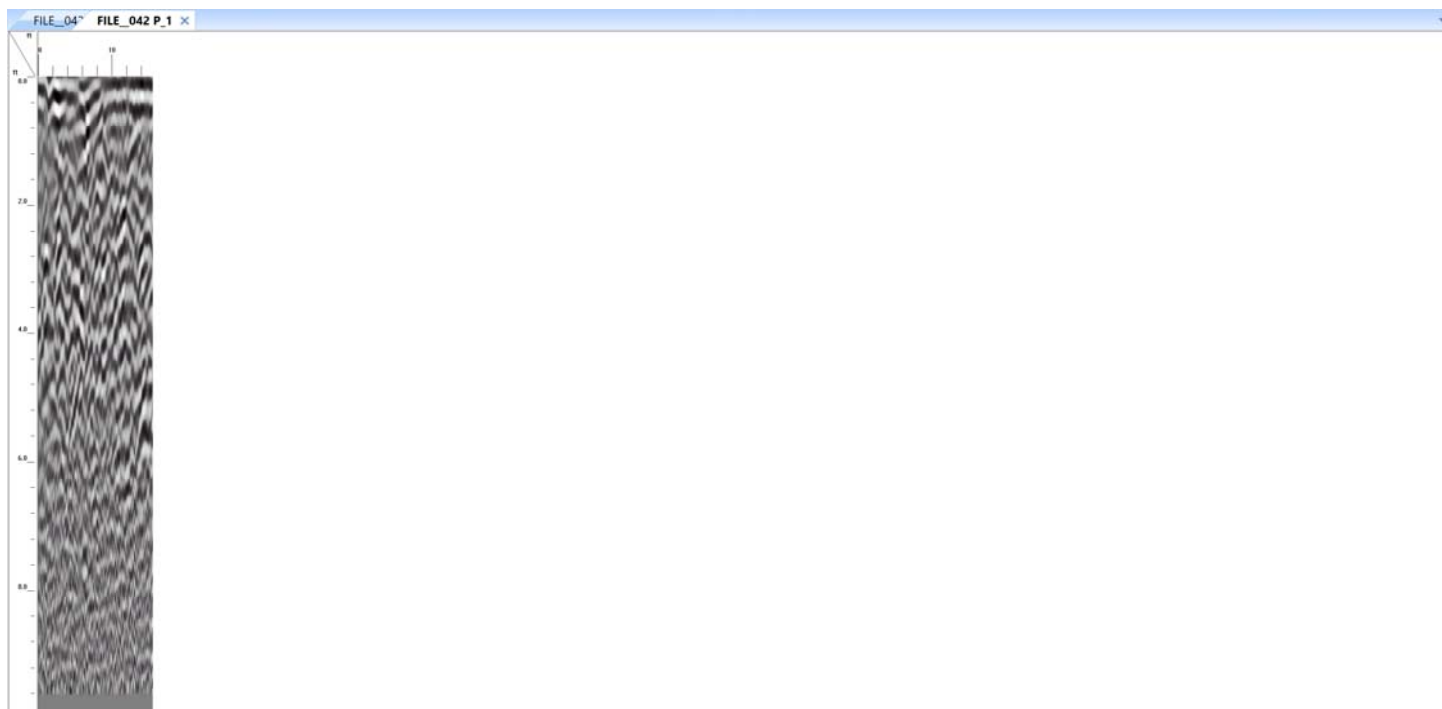
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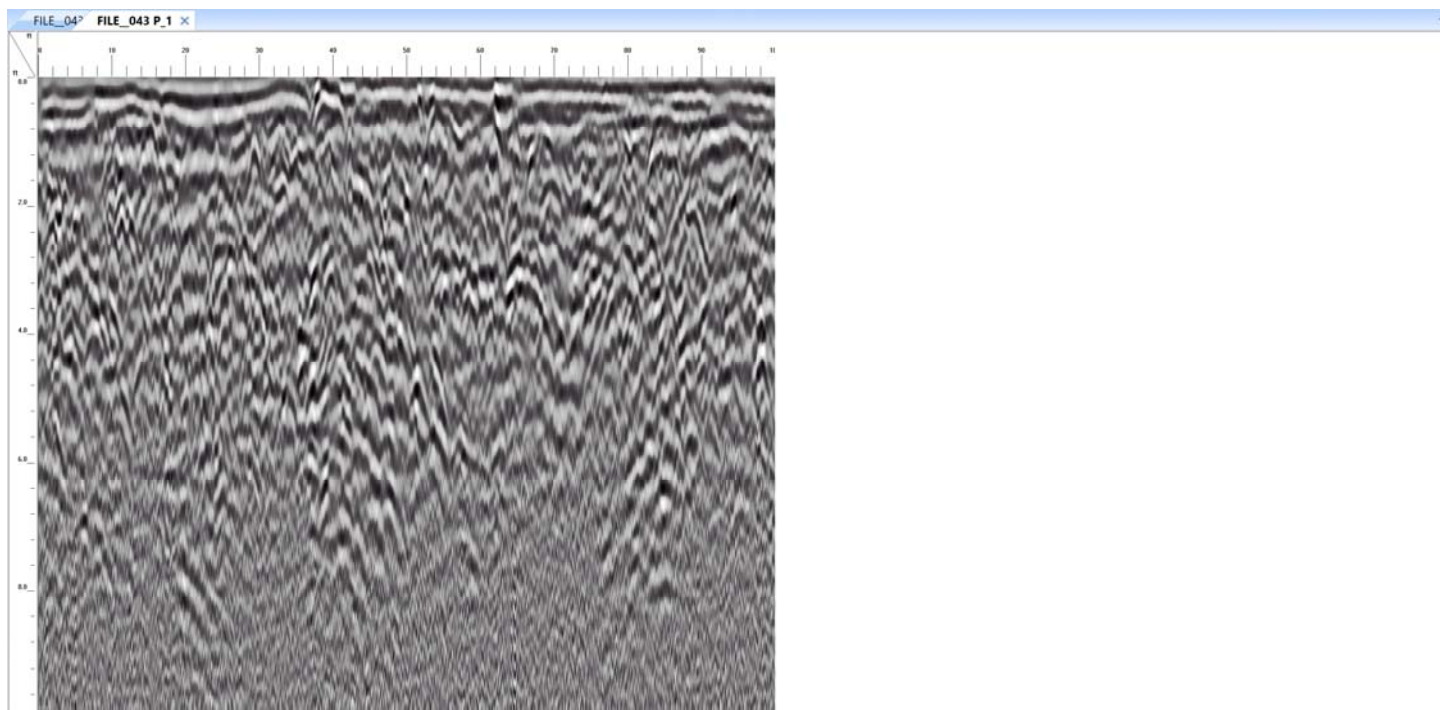
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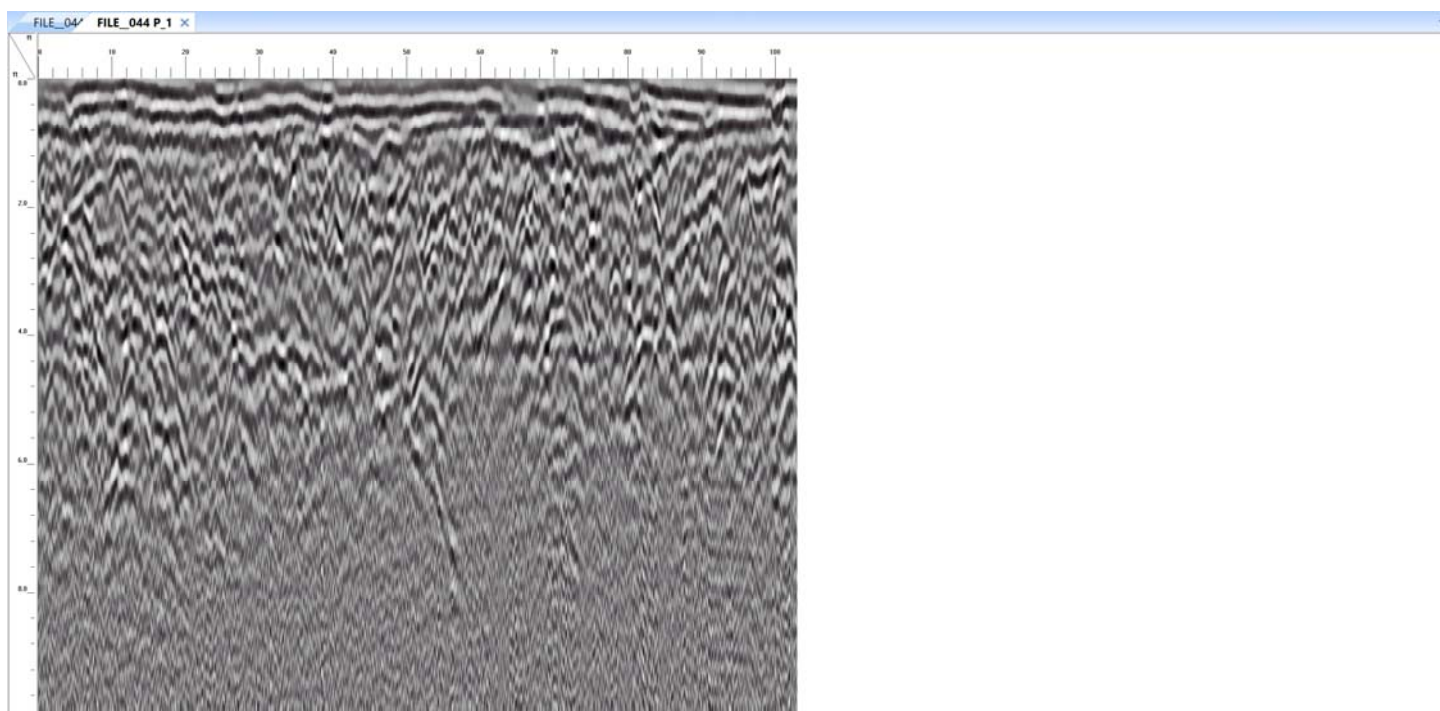
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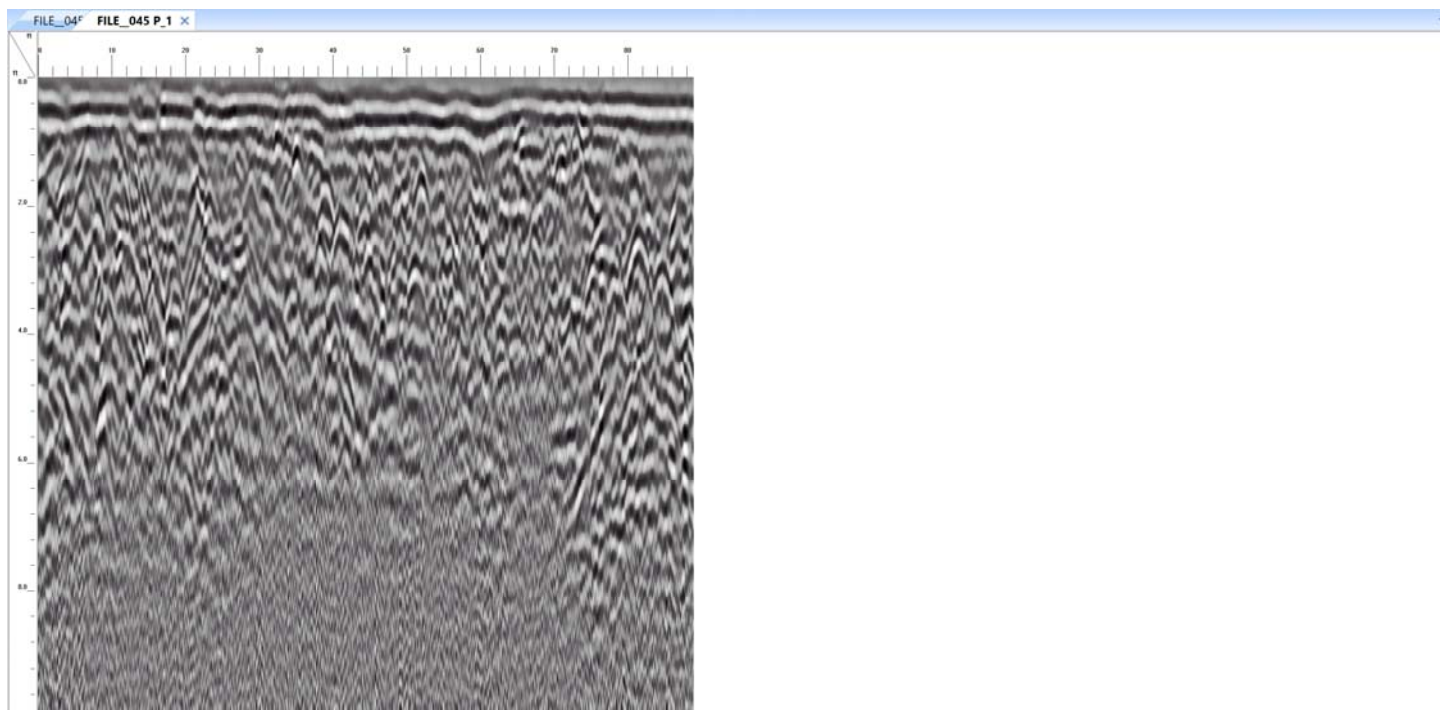
GPR Data: SB B-7, S-N



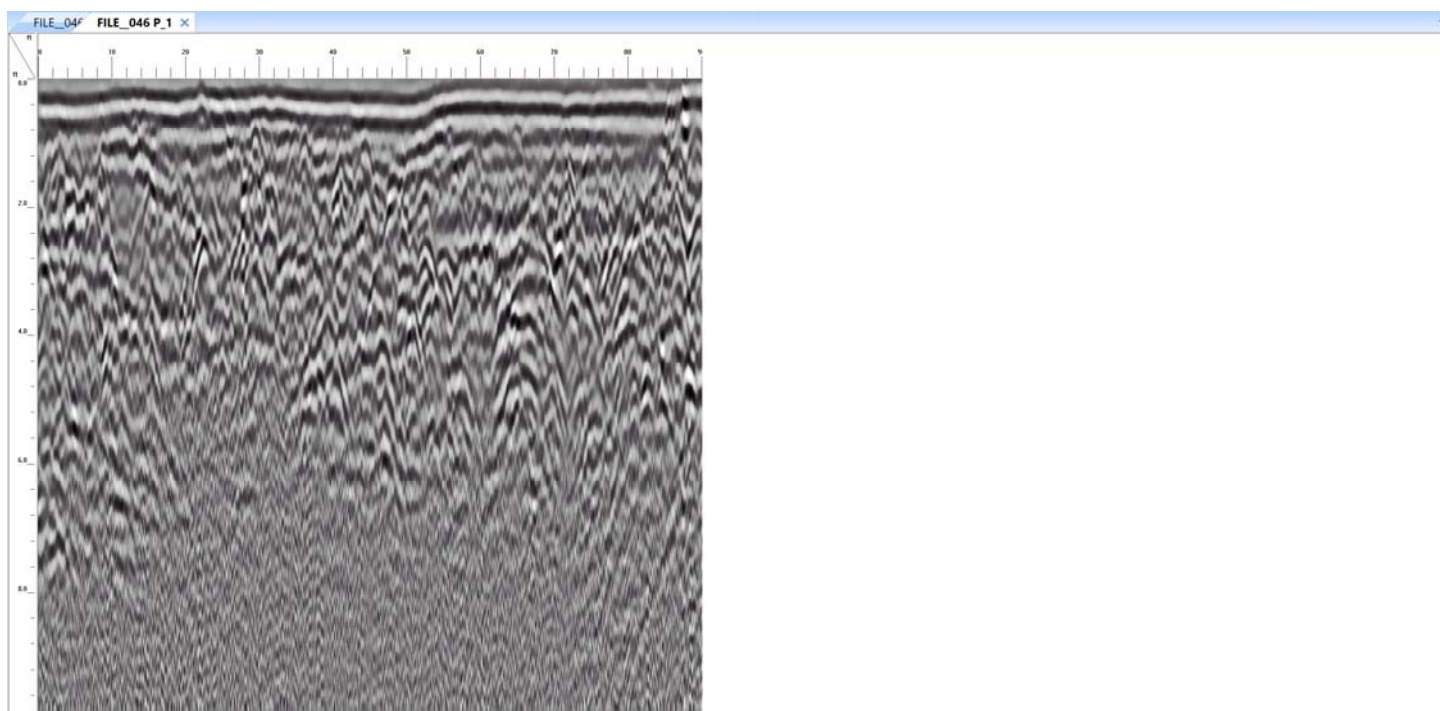
GPR Data: Parking lot, Line 0, E-W



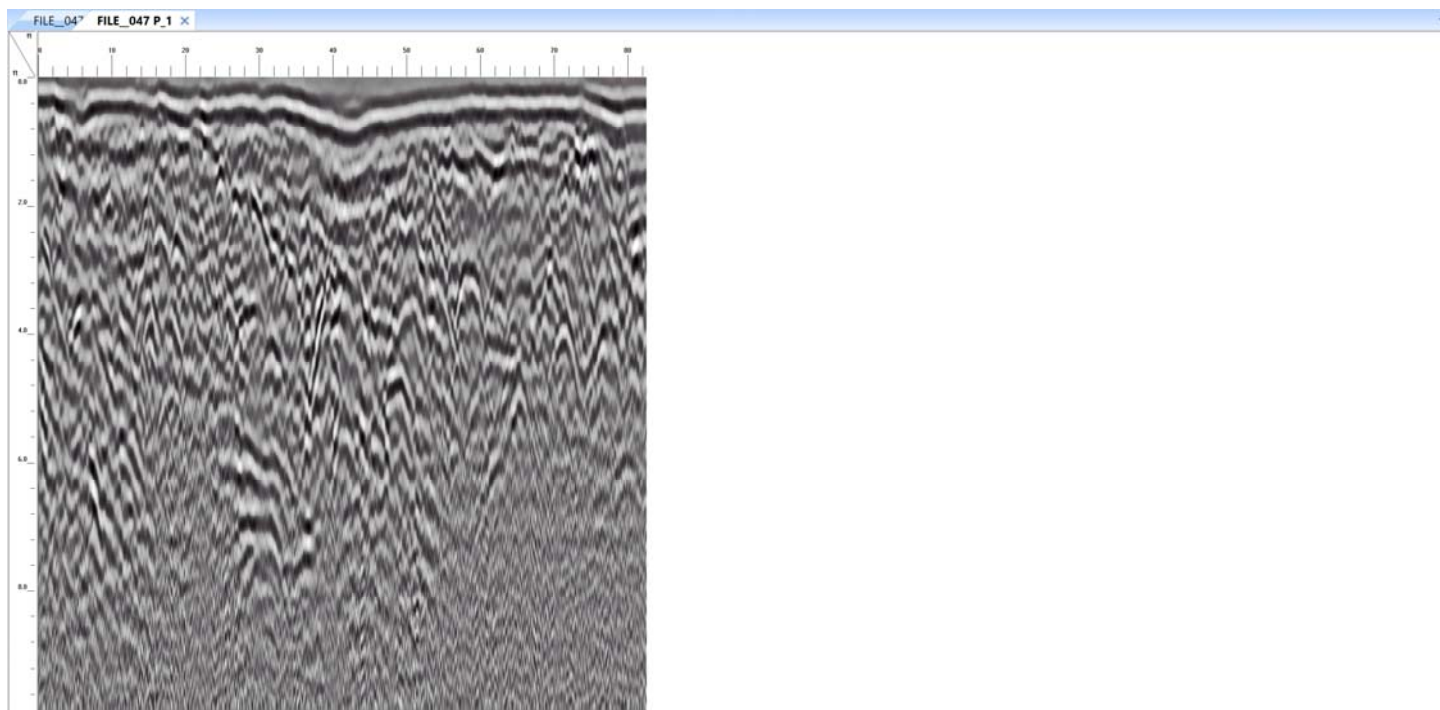
GPR Data: : Parking lot, Line 1, W-E



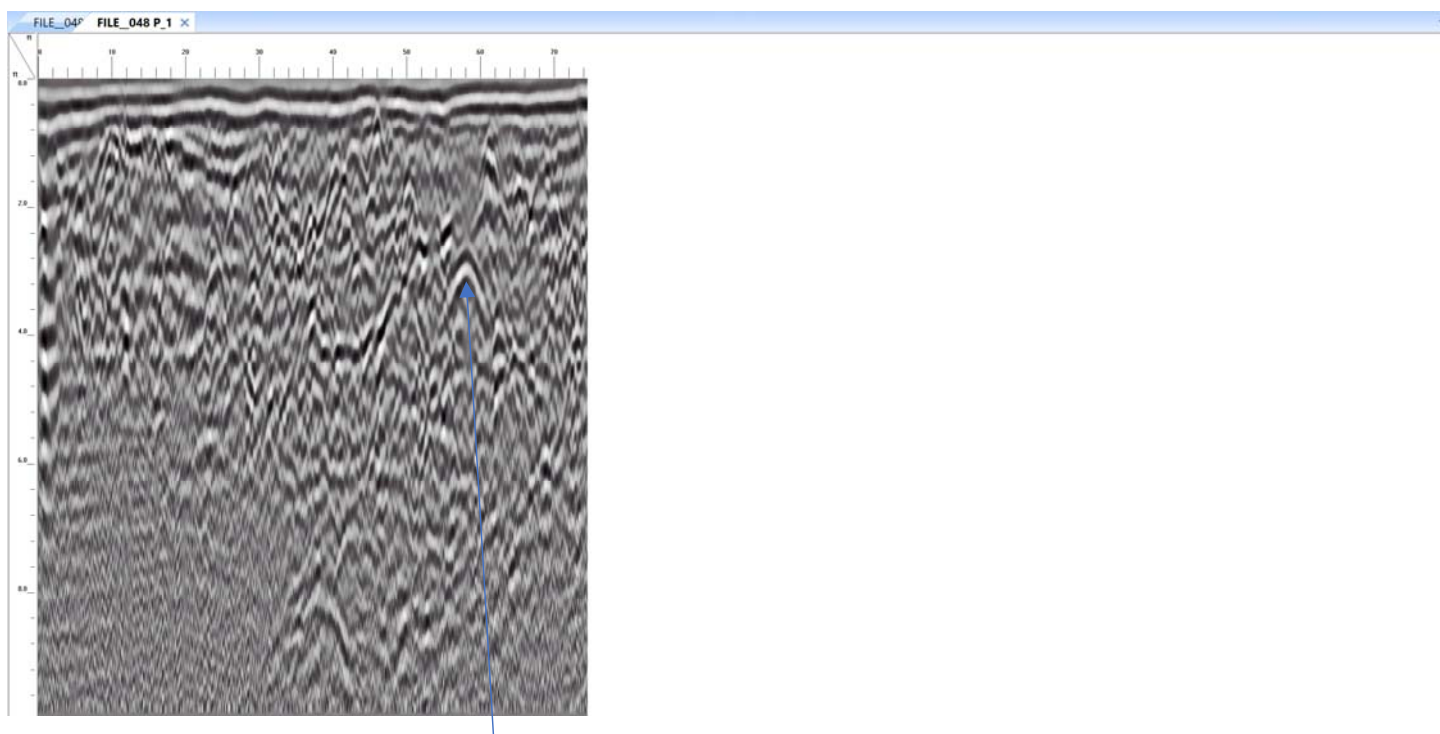
GPR Data: : Parking lot, Line 2, E-W



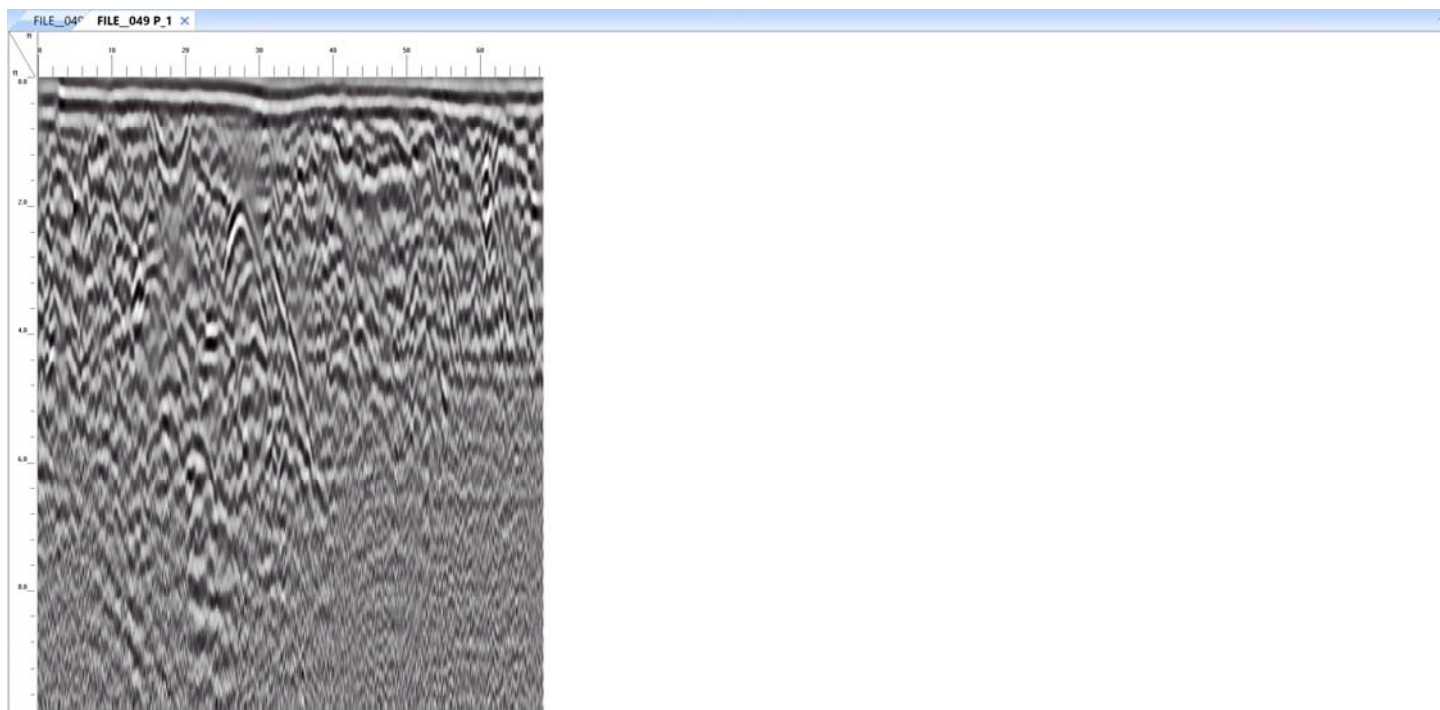
GPR Data: : Parking lot, Line 3, W-E



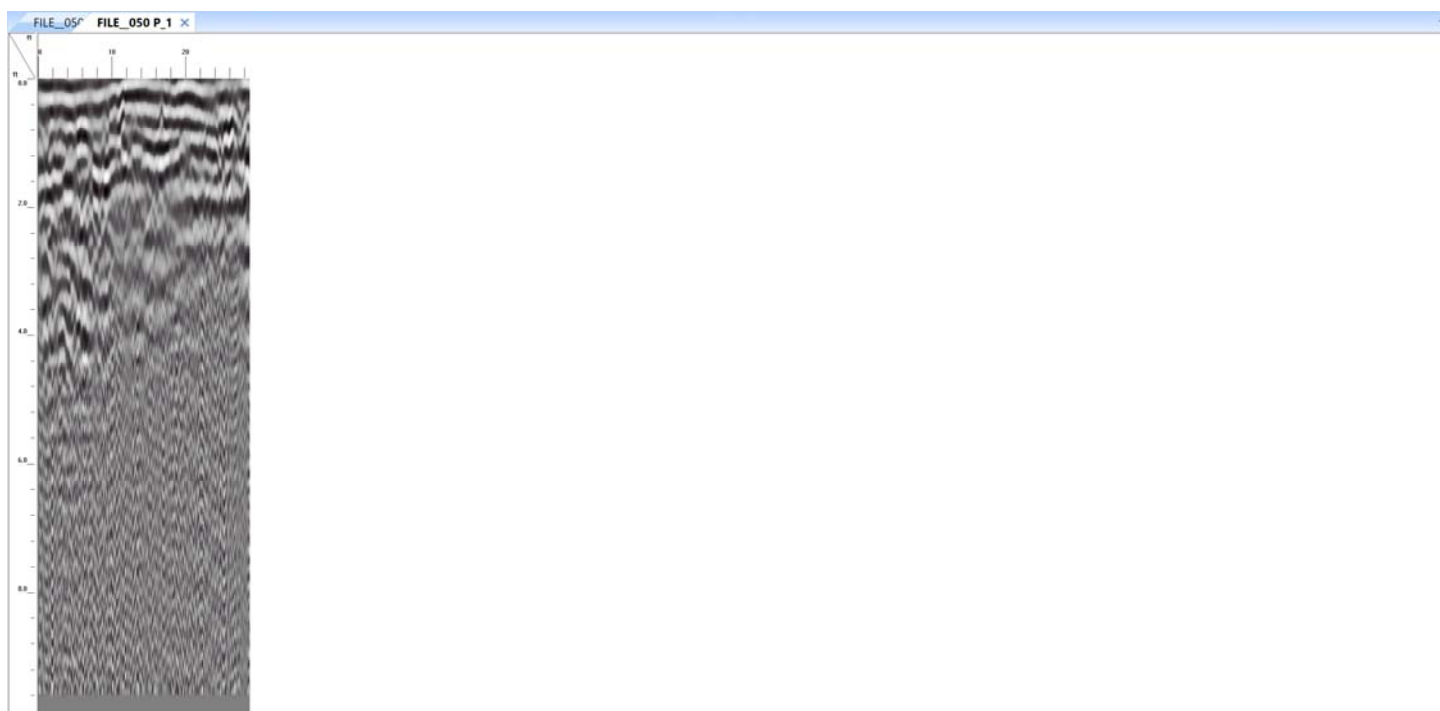
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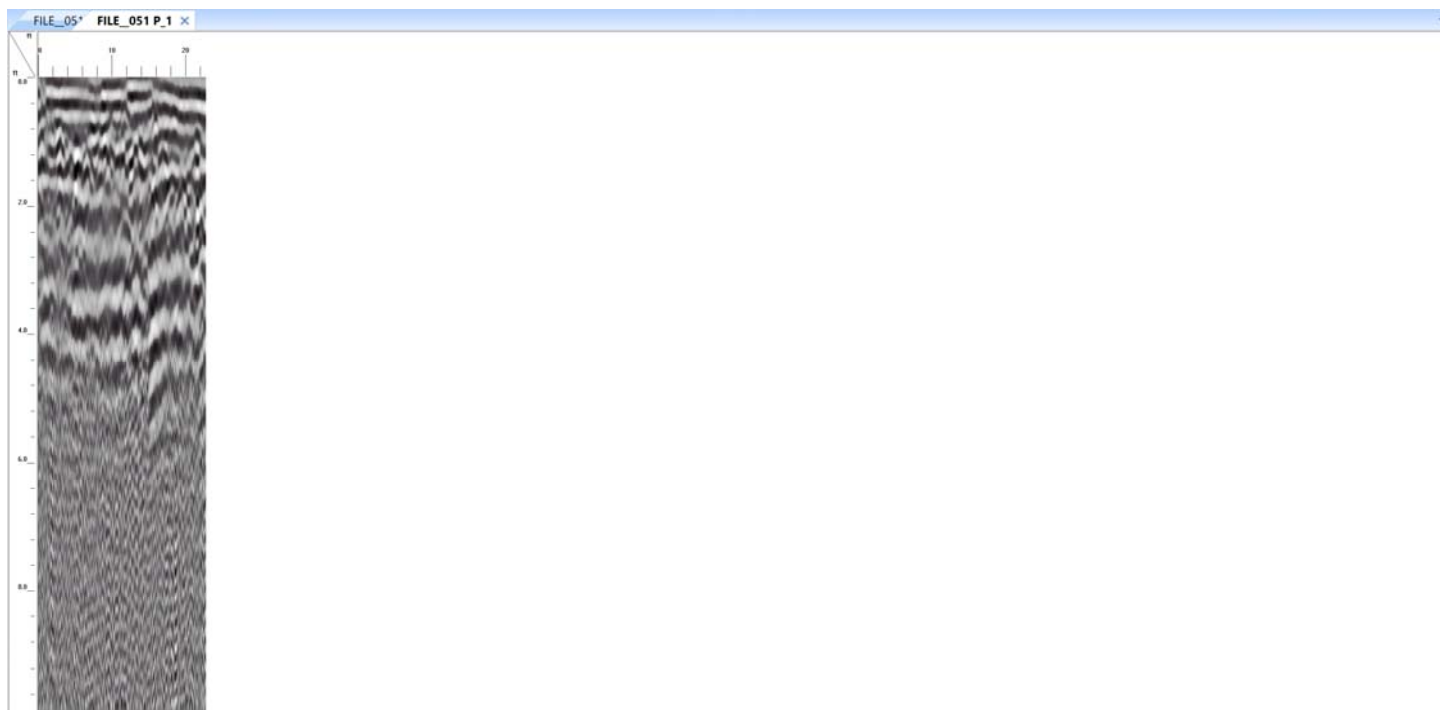
GPR Data: : Parking lot, Line 5, W-E, drain line



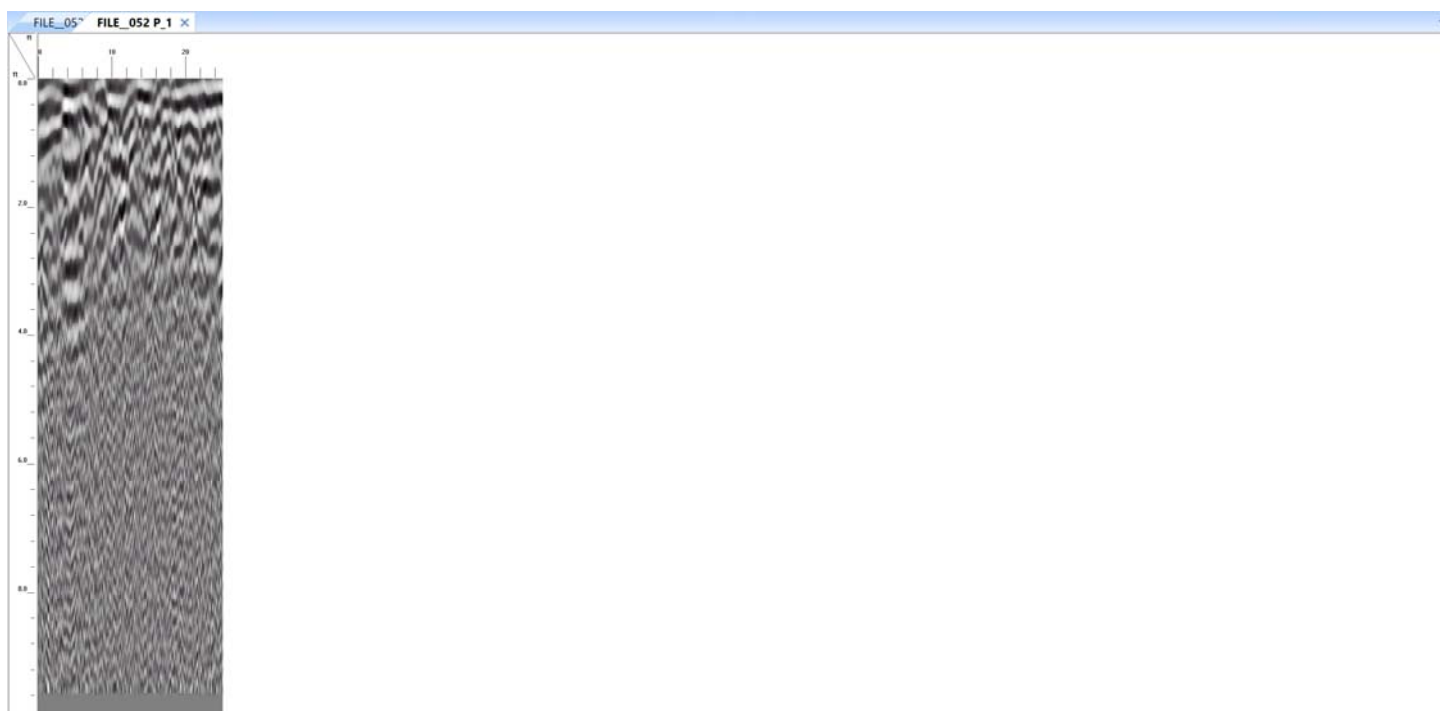
GPR Data: : Parking lot, Line 6, E-W



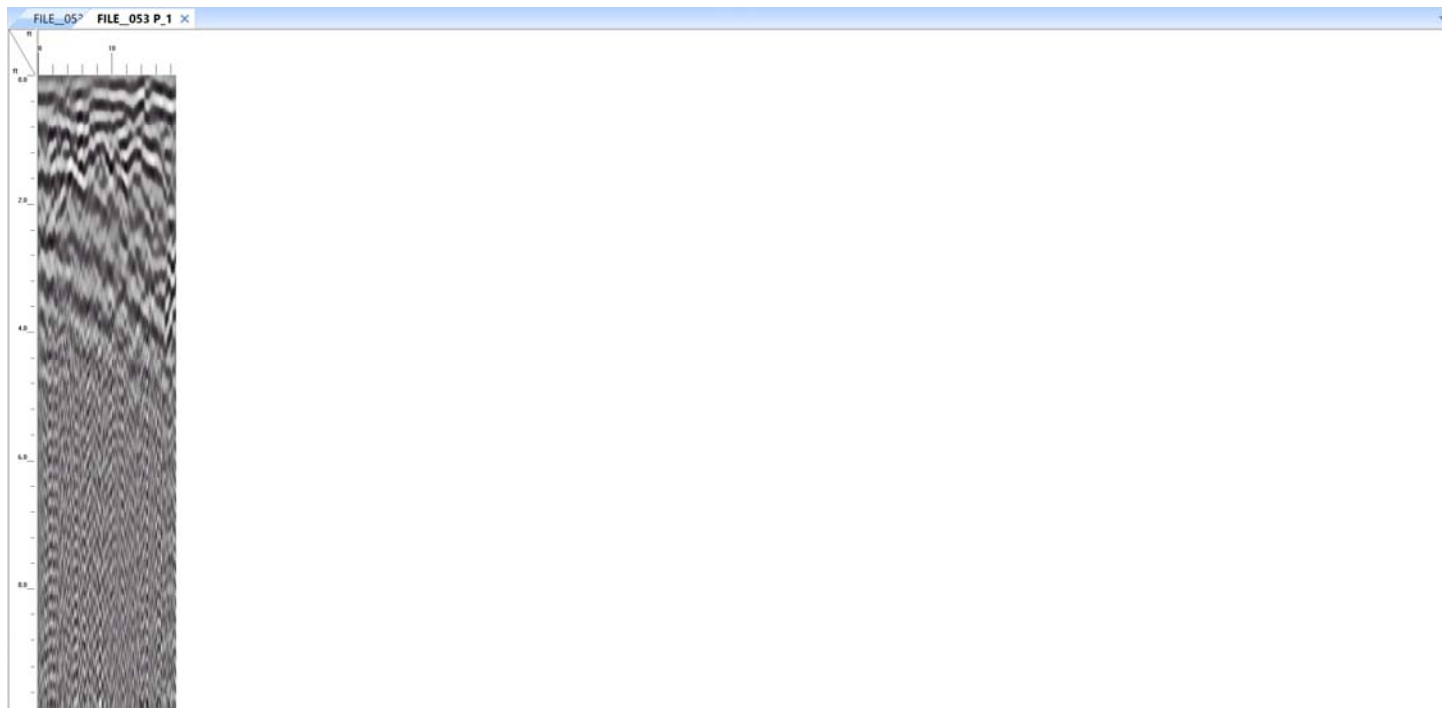
GPR Data: SB B-6, W-E



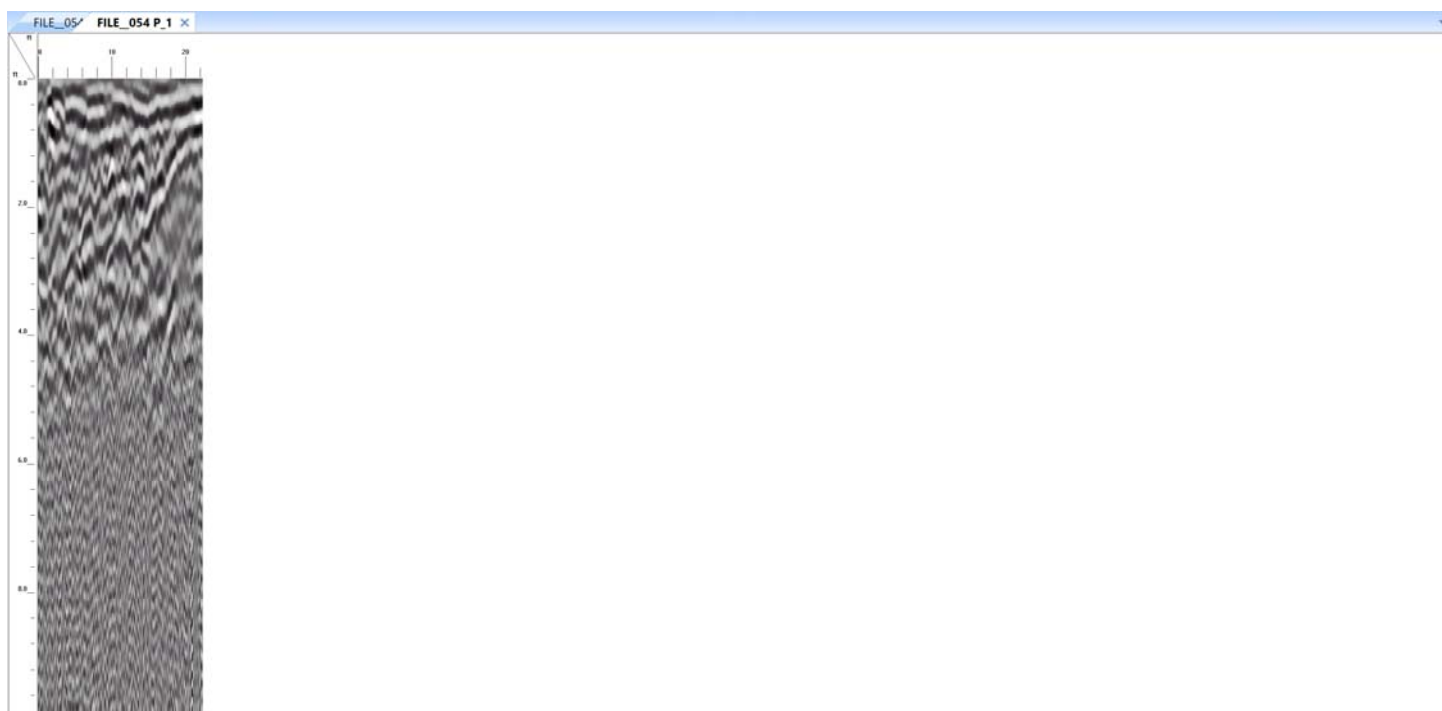
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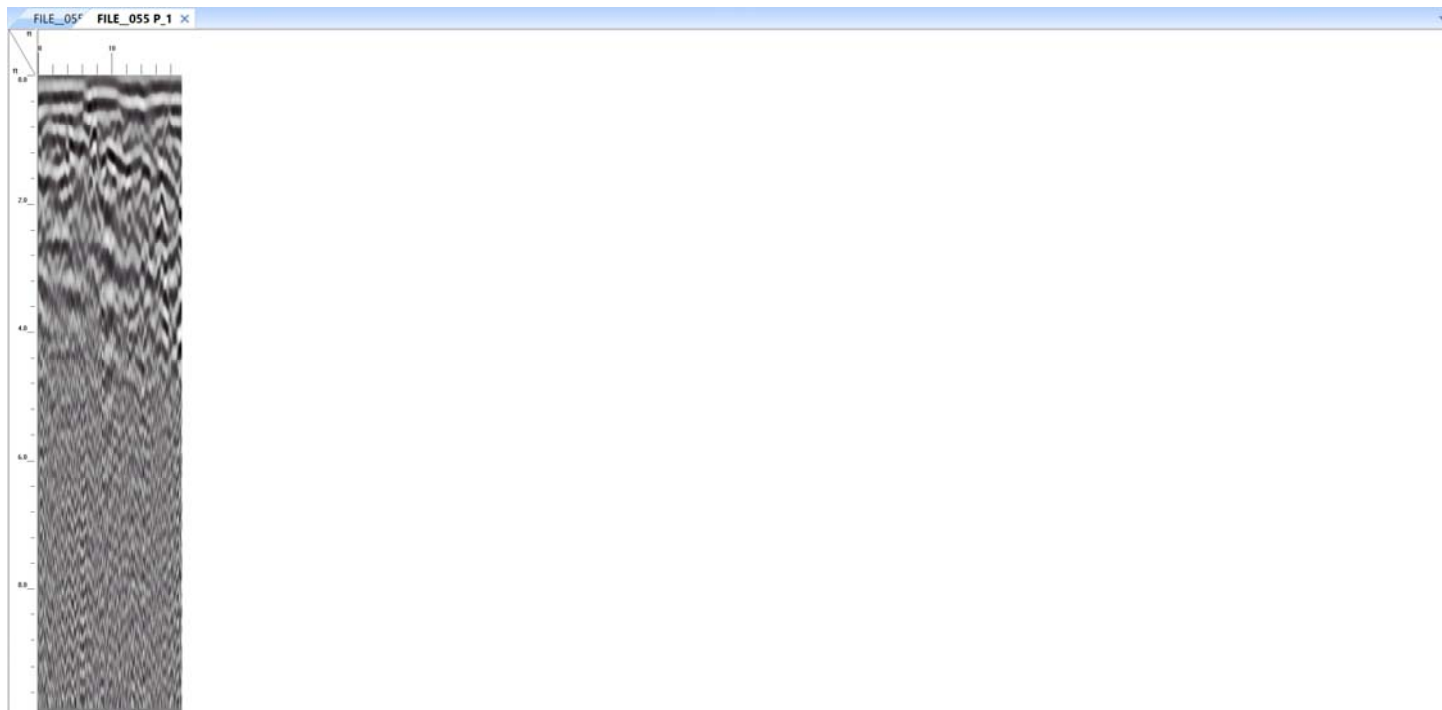
GPR Data: SB B-6, W-E



GPR Data: SB B-6, S-N



GPR Data: SB B-6, N-S



GPR Data: SB B-6, S-N