

Remedial Investigation And Focused Feasibility Study Report

Conducted on:
Chinook Development
1446 NW 53rd Street
Seattle, Washington 98107-3737

Prepared for:
Mr. Shad Bernhoft
Walls Property Management
5210 Russell Avenue NW, Suite #100
Seattle, Washington 98107-3921

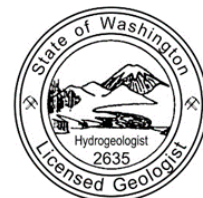
Prepared & Reviewed by:



John Schenk
Staff Scientist



Scott Rose, L.H.G.
Senior Hydrogeologist



SCOTT I ROSE

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1.0 INTRODUCTION

This report presents the findings of a Remedial Investigation (RI) and Focused Feasibility Study (FFS) conducted by Associated Environmental Group, LLC (AEG) at Chinook Development, located at 1446 NW 53rd Street in Seattle, King County, Washington (Property). The purpose of this report is to document all work performed to date to characterize the nature and extent of contamination on the Property, and to outline the preferred remedy for the Property.

This report was developed by AEG based on our professional judgment and experience in accordance with requirements in the Model Toxics Control Act (MTCA) Cleanup Regulations (Chapter 173-340 WAC).

1.1 General Property Information

Property Name: Chinook Development

Property Address: 1446 NW 53rd Street, Seattle, Washington 98107

Parcel Number: 2768300505

Property Owner: Chinook Ballard, LLC

1.2 Property Location and History

The Property is located at 1446 NW 53rd Street, Seattle, King County, Washington. The property is approximately 0.10 acres and is situated in the southeast corner of the Ballard neighborhood. Historically, the Property was developed with a one-story commercial building that was demolished in April 2021. Currently, the Property is vacant land bordered to the north by a Mud Bay pet store, to the northwest by a Subway restaurant, to the west by 15th Avenue NW, to the east by a commercial building, and to the south by NW 53rd Street. Figure 1, *Property Vicinity Map*, presents the general vicinity of the Property. The Property's current layout can be seen in Figure 2, *Property Map*.

1.3 Property Use

The Property is currently vacant. No structures currently exist on the Property. The remaining areas consist of asphalt-paved parking along the southern end of the property, which was associated with the former building.

2.0 FIELD INVESTIGATIONS

2.1 Property Characterization History

2.1.1 Phase I Environmental Site Assessment – Aerotech, July 2018

According to a July 5, 2018 Phase I Environmental Site Assessment (ESA) report completed for the Property by Aerotech Environmental Consulting, Inc. (Aerotech), a closed-in-place 300-gallon heating oil underground storage tank (UST) was identified within the asphalt-paved parking lot area along the southern boundary of the Property. Additionally, upon further review, the neighboring Hollywood Video property, located immediately north of the Property, and a former Tuxedo store and a former Unocal gas station (formerly located northwest of the Property, across 15th Avenue Northwest) had documented impacts of petroleum hydrocarbons (TPH) and volatile organic compounds (VOCs) in soil and groundwater. Available records indicated that groundwater flows towards the southeast in the vicinity of the Property, thereby making all these potential off-Property sources upgradient of the Property. These upgradient properties are illustrated on Figure 3, *Property Area Map*.

2.1.2 Phase II Site Characterization – Earth Solutions NW, May 2021

In May 2021, Earth Solutions NW, LLC conducted a subsurface investigation at the Property. During this investigation, eight borings (B-1 through B-8) were advanced via a Geoprobe® direct-push drilling rig to a maximum depth of 18 feet below ground surface (bgs). Analytical results of groundwater samples collected from these borings indicated concentrations of diesel- and heavy oil-range TPH, tetrachloroethylene (PCE), and vinyl chloride above their respective MTCA Method A groundwater cleanup levels. Boring locations are illustrated on Figure 2, *Property Map*, and the analytical results are presented in Table 1, *Summary of Soil Analytical Results* and Table 2, *Summary of Groundwater Analytical Results*.

2.1.3 Supplemental Investigation – AEG, August 2021

In August 2021, AEG installed five monitoring wells (MW-1 through MW-5) on Property via a Geoprobe® direct-push drilling rig up to 15 feet bgs. Soil gas samples SG-1 through SG-4 were also collected from the Property while advancing the well borings. Soil samples were collected from each of the well borings, and groundwater samples were collected from the wells about two weeks later following well development and allowing time for the wells to equilibrate. Analytical results of the samples indicated concentrations of PCE and vinyl chloride above their respective MTCA Method A cleanup levels in selected samples. TPH constituents were also present in soil gas. Boring/well locations are illustrated on Figure 2, *Property Map*. Soil, groundwater, and soil gas analytical results are presented in Table 1, *Summary of Soil Analytical Results*, Table 2, *Summary of Groundwater Analytical Results*, and Table 5, *Summary of Soil Gas Analytical Results*.

2.2 Off-Property Characterization History

2.2.1 Unocal Gas Station – 5409 15th Avenue NW

This site is located about 320 feet northwest of the Chinook Development Property, and is currently occupied by a Walgreens pharmacy. In 1990, the Unocal 5479 site was reported to the Washington Department of Ecology and placed on the Leaking Underground Storage Tank (LUST) list with ID number 1624. It was subsequently added to Ecology's Confirmed and Suspected Sites List (CSCSL) under Facility/Site ID 99628192. Its current status is *Cleanup Started*.

During initial investigations in August 1990, GeoEngineers, Inc. (GeoEngineers) performed a subsurface investigation and confirmed the presence of gasoline-range TPH and benzene, toluene, ethylbenzene, and xylene (BTEX) compounds above their respective MTCA Method A cleanup levels for soil and groundwater. Groundwater samples also contained chlorinated VOCs at concentrations exceeding their MTCA Method A cleanup levels.

In January 1993, GeoEngineers monitored the excavation of 18 test pits at the site and discovered three pre-Unocal USTs. Testing confirmed the presence of gasoline-contaminated soil in the south-central to southeast portions of the site along with diesel- and heavy oil-contaminated soil in the northwest portion of the site. Before remedial activities began, free petroleum product (LNAPL) was encountered in three of the on-site monitoring wells (MW-3, MW-4, and MW-5). In their reporting for this event, GeoEngineers included data from three separate monitoring well events from 1992 that had not previously been reported. These events indicated the presence of gasoline- and diesel-range TPH, and chlorinated VOCs in groundwater above their respective MTCA Method A cleanup levels. Based on groundwater measurements, the direction of groundwater flow at this site was determined to be to the southeast (toward the Chinook Development Property).

The three pre-Unocal USTs were removed in March 1993. Between September 1993 and August 1994, A.L. Sleister and Sons Construction removed two separate 12,000-gallon gasoline USTs and a 550-gallon waste oil tank from the site along with approximately 4,400 cubic yards of petroleum-contaminated soil (PCS).

The soil and groundwater data for these events are presented in Table 1, *Summary of Upgradient Off-Property Soil Analytical Results*, and Table 2, *Summary of Upgradient Off-Property Groundwater Analytical Results*, respectively. Documentation from Ecology's site file illustrating site features, data, well locations, and groundwater flow direction are included in Appendix B.

2.2.2 The Tux Shop – 5409 15th Avenue NW

This site is located about 350 feet northwest of the Chinook Development Property, and is currently occupied by a Walgreens pharmacy. A dry-cleaning facility operated on the western portion of the site from the early 1950s until 1993 when the facility was shut down due to a fire. During Unocal's site characterization activities in 1990, The Tux Shop was notified regarding a possible release of chlorinated VOCs, including PCE and its breakdown products.

In March 1991, The Tux Shop and the FN&F Investment Company initiated an investigation to evaluate the source and extent of the chlorinated VOCs in soil and groundwater. Their findings documented the presence of PCE, trichloroethylene (TCE), and cis-1,2-dichloroethane (DCE) above their respective MTCA cleanup levels in groundwater. Between 1994 and 1996, multiple sampling events indicated the presence of PCE in soil and PCE, TCE, cis-1,2-DCE, and vinyl chloride in groundwater above their respective MTCA cleanup levels. Based on groundwater measurements, the direction of groundwater flow at this site was determined to be to the southeast (toward the Chinook Development Property).

In 1996, The Tux Shop site was reported to Ecology via Environmental Report Tracking System (ERTS) number 424110, and was added to the CSCSL on February 3, 1997 under Facility/Site ID 6819. Its current status is *Awaiting Cleanup*.

The soil and groundwater data for these events are presented in Table 1, *Summary of Upgradient Off-Property Soil Analytical Results*, and Table 2, *Summary of Upgradient Off-Property Groundwater Analytical Results*, respectively. Documentation from Ecology's site file illustrating site features, data, well locations, and groundwater flow direction are included in Appendix C.

2.2.3 Wendy's Restaurant – 5315 15th Avenue NW

In June 1997, Giles Engineering Associates, Inc. completed a Phase I Environmental Site Assessment (ESA) report for this property. Based on the results of that study, it was concluded that soil and/or groundwater contamination may exist due to the presence of two sites (The Tux Shop and the Unocal 5409) immediately upgradient (north) of the property.

In July 1997, Giles Engineering Associates, Inc. conducted a Phase II ESA. Analytical results found PCE and TCE in groundwater and PCE in soil above MTCA cleanup levels. Additionally, this site assessment confirmed the solvent plume had migrated beyond the property boundary and across NW 54th Street. It was recommended to submit the findings to Ecology for review of possible remediation.

This property was not listed as a separate site on the CSCSL. The soil and groundwater data are presented in Table 1, *Summary of Upgradient Off-Property Soil Analytical Results*, and Table 2, *Summary of Upgradient Off-Property Groundwater Analytical Results*, respectively. Documentation from Ecology's site file illustrating site features, data, well locations, and groundwater flow direction are included with the Unocal site documents in Appendix B.

2.2.4 Hollywood Video – 5314 15th Avenue NW

This site is located adjacent to the north of the Chinook Development Property. In November 2001, Environmental Partners, Inc. (EPI) conducted a Phase I ESA on behalf of Safeway, Inc. in connection with the potential redevelopment of a portion of the property as a retail fueling center. EPI Phase I revealed multiple recognized environmental conditions (RECs), including the following:

- A previous report documented gasoline-range TPH and BTEX compounds in soil beneath the property.
- A fueling station reportedly operated on the western portion of the property, and there was no documentation regarding removal of the USTs.
- The presence of TPH, and PCE and breakdown products in groundwater at The Tux Shop and Unocal across the street to the northwest that had not been characterized.

As a follow-up to the Phase I, EPI performed a Phase II ESA and samples of soil and groundwater were collected from beneath the site. The results indicated the presence of petroleum products, VOCs, and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) above their respective MTCA cleanup levels.

In 2009, Geotech Consultants, Inc. reportedly conducted a Phase I and Phase II ESA at the site. Analytical results reportedly found MTCA exceedances of PCE and TPH in the groundwater along with limited soil contamination (TPH); however, AEG was unable to obtain a copy of these documents.

The Hollywood Video site was added to the CSCSL on May 31, 2017 under Facility/Site ID 14234. Its current status is *Awaiting Cleanup*.

The soil and groundwater data are presented in Table 1, *Summary of Upgradient Off-Property Soil Analytical Results*, and Table 2, *Summary of Upgradient Off-Property Groundwater Analytical Results*, respectively. Documentation from Ecology's site file illustrating site features, data, well locations, and groundwater flow direction are included with the Unocal site documents in Appendix D.

2.3 Field Methodology

2.3.1 Soil Sampling Procedures

Soil sampling methods for this work followed the protocols established by Ecology and the U.S. Environmental Protection Agency (EPA). To minimize VOC losses, soil sampling and field preservation methods for VOCs followed methods set forth by EPA's Method 5035A and Ecology's guidance, "*Collecting and Preparing Soil Samples for VOC Analysis*". Soil samples were collected from the soil borings via continuous soil cores in an acetate sleeve inside the drilling rod's core barrel. Soils were observed to document soil lithology, color, moisture content, and sensory evidence of contamination.

Soil samples were selected for laboratory analysis based on field observations and photoionization detector (PID) readings. Soil samples were collected and placed into laboratory provided 40-milliliter glass vials and 4-ounce glass jars for analysis. The soil samples were transported to the Libby Environmental laboratory (Libby) in Olympia, Washington, for analyses following industry standard chain-of-custody procedures.

2.3.2 Well Construction

The five monitoring wells at the Property were constructed pursuant to Ecology's *Minimum Standards for Construction and Maintenance of Wells*, Chapter 173-160 WAC. All groundwater monitoring wells at the Property were constructed to a depth of 15 feet bgs, with 5 feet of 2-inch diameter 0.020-inch slotted PVC screen. The annular space around the well screen was filled with 10/20 Colorado sand to approximately 1.5 feet above the top of the well screen. To seal each well, bentonite chips were placed above the sand and a traffic-rated surface monument was placed over the well casing to protect it. The monitoring wells were properly developed after installation using high-flow pumping until turbidity decreased and stabilized.

2.3.3 Boring Groundwater, and Monitoring Well Groundwater Sampling Procedures

For one-time borings, a temporary well screen was installed to collect a groundwater sample. The temporary well screen was placed at the interval below the vadose zone where groundwater was encountered during drilling activities. Dedicated polyethylene tubing was inserted into the retractable screen and groundwater purged via the EPA-approved low-flow purge technique. A peristaltic pump was used to purge the well until the discharge was relatively free of sediment.

Groundwater monitoring wells were sampled via the low flow-purging technique, and purged until the field parameters, including pH, temperature, specific conductivity, dissolved oxygen, and/or total dissolved solids were stabilized, and the water was relatively free of sediment.

Groundwater samples were collected in laboratory-provided 40-milliliter (ml) volatile organic analysis (VOA) vials, 250-ml polyurethane bottles, and ½-liter amber bottles. Upon collection, the samples were placed in a chilled cooler for transport to the analytical laboratory.

2.3.4 Quality Controls

To ensure that quality information was obtained at the Property:

- All samples were collected in general accordance with industry protocols for the collection, documentation, and handling of environmental samples.
- Descriptions of soil and groundwater sampling depths were carefully logged in the field. The driller and geologist confirmed sample depths as soil samples were collected.
- Nitrile gloves were worn when handling all sampling containers and sampling devices. Clean gloves were used at each soil boring to prevent cross contamination.
- The sampling equipment was scrubbed with Alconox detergent and rinsed with water prior to each sample extracted.
- Soil samples were tightly packed into laboratory-provided dedicated sampling containers to eliminate sample headspace.
- Groundwater samples were collected using laboratory-provided dedicated sampling containers using zero headspace sampling techniques.
- Upon sampling, all soil and groundwater samples were immediately placed into chilled ice chests, and transported for analysis under a chain-of-custody protocol to Libby Environmental, Inc. (Libby) analytical laboratory in Olympia, Washington.

The analytical laboratory provided project quality assurance/quality control (QA/QC), including:

- Surrogate recoveries for each sample.
- Method blank results.
- Duplicate analysis.
- Laboratory control samples.

All analytical laboratory QA/QC results were within required limits. Analytical Laboratory results are provided in Appendix A, Supporting Documents, *Laboratory Datasheets*.

2.3.5 Investigation-Derived Waste

Investigation-derived waste for this project consisted of soil cuttings and purge water from the subsurface exploration activities, and decontamination water from decontamination of the drilling core barrel and associated equipment. These wastes were placed in U.S. Department of Transportation (DOT) approved 55-gallon drums. The drums were appropriately labelled, and stored on Property for subsequent characterization and disposal.

2.4 Analytical Results

Soil and groundwater samples collected to date have been analyzed for one or more of the following analyses:

- Gasoline-range TPH by Method NWTPH-Gx.
- Diesel- and oil-range TPH by Method NWTPH-Dx/Dx Extended.
- BTEX, methyl tert-butyl ether (MTBE), naphthalene, ethylene dibromide (EDB), 1,2-dichloroethane (EDC), and PCE and its breakdown products by EPA Method 8260.

Soil gas samples were analyzed for the following analysis:

- VOCs and air-phase hydrocarbons (APH) by Method TO-15.

Soil and groundwater analytical results were compared to MTCA Method A or B cleanup levels. Soil gas results were compared to MTCA Method B sub-slab screening levels. Copies of the laboratory analytical results are provided in Appendix A, Supporting Documents, *Laboratory Datasheets*.

2.4.1 Soil Results

PCE was detected in one soil sample (MW1-13) at 0.051 milligrams per kilogram (mg/kg), which is just above the MTCA Method A cleanup level of 0.05 mg/kg, and well below the Method B cleanup level of 480 mg/kg for protection of direct contact exposure. All other results were either non-detect or below MTCA cleanup levels. Table 1, *Summary of Soil Analytical Results*, presents the soil analytical results as compared to MTCA Method A and B soil cleanup levels. Full analytical results are provided in Appendix A, Supporting Documents, *Laboratory Datasheets*.

2.4.2 Groundwater Results

The groundwater samples collected from the soil borings by Earth Solutions detected diesel- and oil-range TPH, PCE, and vinyl chloride in selected samples above MTCA cleanup levels. However, samples collected by AEG from the permanently installed wells detected PCE and vinyl

chloride above MTCA cleanup levels, but diesel- and oil-range TPH were non-detect. Table 2, *Summary of Groundwater Analytical Results*, presents the groundwater analytical results as compared to MTCA Method A and B groundwater cleanup levels. Full analytical results are provided in Appendix A, Supporting Documents, *Laboratory Datasheets*.

2.4.3 Soil Gas Results

APH, benzene, and naphthalene were detected in selected soil gas samples above their respective MTCA Method B sub-slab screening levels. An exceedance of these screening levels indicates the constituent is present at a concentration that has the potential to migrate into indoor air of a nearby structure. No structures are currently present on Property; however, structures are present on adjacent properties. Table 5, *Summary of Soil Gas Analytical Results*, presents the soil gas analytical results as compared to MTCA Method B sub-slab screening levels. Full analytical results are provided in Appendix A, Supporting Documents, *Laboratory Datasheets*.

3.0 CONCEPTUAL SITE MODEL (CSM)

This section provides a conceptual understanding of the Property, derived from the results of the subsurface investigations and previous remedial actions performed at the Property. This Conceptual Site Model (CSM) will assist in determining the best remedial approach for the Property. The CSM is dynamic and may be refined as additional information becomes available.

3.1 Constituents of Concern (COCs) and Affected Media

Based on available information, there is no primary release model for the Property. Sampling performed to date does not indicate a release occurred from the 300-gallon heating oil UST identified within the asphalt-paved parking lot area along the southern property boundary of the Property. Rather, constituents of concern (COCs) detected in soil, soil gas, and groundwater to date (including TPH, PCE, and/or vinyl chloride) are consistent with documented upgradient releases from listed sites that have not received regulatory closure.

3.2 Property Geology and Hydrogeology

The Property is located in the region of the Puget Lowlands an elongated topographic and structural depression filled with complex sequences of glacial and non-glacial sediments that overlie bedrock. Continental ice sheets up to 3,000 feet thick covered portions of the Puget Lowland several times during the Quaternary period. Retreating ice carved new landscapes, rechanneled rivers, drained or formed lakes, and deposited glacial drift including till and outwash. The geology is variable within one-half mile of the Property. According to the Geologic Map of Seattle, the Property and surrounding properties overlie Pre-Fraser glaciation age deposits that primarily consist of horizontally bedded to cross bedded, coarse lag sand and gravel deposited in outwash channels that carried south draining glacial meltwater during ice retreat.

The Natural Resources Conservation Services (NRCS) Washington Soil Survey Report for King County, Washington indicates no soil maps are available for the vicinity of the Property. This is typical of soil surveys in historically urban settings, due to the amount of fill material that may have been brought in, massive excavating, and/or most surfaces are covered by buildings or asphalt.

Soils encountered at the Property during drilling consisted of grey, dense, poorly sorted, silty sand. Borings by Earth Solutions and AEG were advanced to a maximum depth of 18 feet bgs.

Groundwater at the Property was encountered by Earth Solutions between 14.5 and 15.5 feet bgs during field activities. In the wells installed by AEG, the depth to water was measured between 9.83 and 12.92 feet bgs. The calculated groundwater gradient for the August 2021 sampling event

is primarily towards the south-southeast, with an approximate gradient of 0.03 feet per foot (Figure 4, *Groundwater Elevation Contour Map 08/23/2021*).

3.3 Environmental Fate of TPH in the Subsurface

TPH and associated compounds are soluble, and migrate in groundwater. These compounds have a specific gravity that is less than water, and can be measured in monitoring wells as Light Non-aqueous Phase Liquid (LNAPL). To date, no LNAPL has been measured in Property monitoring wells.

LNAPL can also exist as a residual non-mobile phase that is either sorbed to the soil or trapped in the pore spaces between the soil particles. Unless treated, residual LNAPL can act as a long-term source for groundwater contamination.

TPH and the associated BTEX compounds are volatilized under the appropriate conditions. In the subsurface, volatilization releases COCs into the soil vapor where, if conditions are right, COCs can migrate beneath or into structures as vapor. There are currently no structures on the Property, nor has TPH or related constituents been detected in soil or groundwater. However, TPH constituents were present in soil gas presumably from upgradient sources.

TPH and BTEX compounds are also readily biodegraded in the subsurface by naturally occurring aerobic and anaerobic bacteria. Aerobic biodegradation is the most efficient of the biological activities.

3.4 Environmental Fate of Chlorinated Solvents in the Subsurface

The density of PCE and its breakdown products is greater than water. Upon release into the environment, chlorinated VOCs can sink through the vadose zone, through the water table, and possibly penetrate leaking aquitards. These chemicals can also exist as a residual non-mobile phase either sorbed to the soil or trapped in the pore spaces between the soil particles. At this Property, dissolved-phase PCE and its breakdown products have been detected in groundwater, and PCE was detected in one soil sample. No dense non-aqueous phase liquid (DNAPL) has been detected.

Chlorinated VOCs and their associated compounds can be volatilized under the appropriate conditions. In the subsurface, volatilization releases COCs from soil and/or groundwater into soil vapor where, if conditions are right, can migrate beneath or into structures. PCE and TCE were detected in soil gas below MTCA Method B sub-slab screening levels.

The most common anaerobic dechlorination pathway of PCE is the degradation to ethenes. In the sequential transformation of the chlorinated ethenes, chlorine is replaced using hydrogen as an electron donor. The occurrence of the lesser chlorinated ethenes (such as vinyl chloride and DCE) in groundwater is primarily a consequence of incomplete anaerobic reductive dechlorination of the more highly chlorinated ethenes (PCE and TCE). Vinyl chloride and DCE are toxic, and vinyl chloride is a known human carcinogen.

3.5 Potential Exposure Pathways

As defined in WAC 173-340-200, an exposure pathway describes the mechanism by which a hazardous substance takes or could take a pathway from a source or contaminated medium to an exposed receptor.

3.5.1 Potential Soil Exposure Pathways

Potentially complete soil exposure pathways at the Property include:

- Contact (dermal contact, incidental ingestion) with hazardous substances in soil by visitors, residents, and workers (including excavation workers). Direct ingestion of, or dermal contact with, soil containing Property COCs is considered a potentially complete pathway. COCs were detected in only one soil sample; PCE was detected in MW1-13 at 0.051 mg/kg, which is just above the MTCA Method A cleanup level of 0.05 mg/kg, and well below the Method B cleanup level of 480 mg/kg for protection of direct contact exposure. As such, direct ingestion of, or dermal contact with, soil containing Property COCs is not considered a complete pathway. Further, the Property is proposed to be developed with a zero-lot-line structure. The planned Property building will act as a cap preventing any potential exposure, and the environmental covenant will document the institutional controls in place (i.e., cap) to prevent any potential direct contact exposure.
- Groundwater Leaching Pathway. While the groundwater leaching pathway is considered potentially complete at this Property, the one soil detection (PCE at 0.51 mg/kg) is the only sample result that has the potential to leach into groundwater. This detection was at 13 feet bgs, and the depth to groundwater measured in MW-1 in August 2021 was 11.34 feet. As such, this soil detection is already within the saturated zone, and its presence beneath the Property is due to the migration of impacted groundwater from upgradient sources. The proposed environmental covenant will document the institutional controls in place (i.e., restrictions on groundwater use) to prevent any potential exposure.

3.5.2 Potential Groundwater Exposure Pathways

Potentially complete groundwater exposure pathways at the Property include:

- Contact (dermal, incidental ingestion) with hazardous substances dissolved in groundwater by visitors, residents, and workers (including excavation workers). Groundwater is considered a potentially complete pathway for direct contact and ingestion given the shallow depth of its occurrence (9.83 feet bgs measured in MW-5). PCE and vinyl chloride are present in groundwater above MTCA cleanup levels, and their presence beneath the Property has been shown to be due to the migration of impacted groundwater from upgradient sources. The planned Property building will act as a cap preventing any potential exposure, and the environmental covenant will document the institutional controls in place (i.e., cap and restrictions on groundwater use) to prevent any potential direct contact exposure.
- Consumption of hazardous substances in groundwater. Currently, drinking water is provided by the City of Seattle. That said, Ecology typically considers most groundwater to be a potential future drinking water source. However, as previously noted, since groundwater impacts are migrating from an upgradient source, any efforts to clean up the groundwater contamination would result in the Property getting re-contaminated. Further, any barrier that could potentially be installed would only likely be a temporary solution to preventing re-contamination (see further discussion in Section 5.0). The proposed environmental covenant will document the institutional controls in place (i.e., restrictions on groundwater use) to prevent any potential exposure.

3.5.3 Potential Air Exposure Pathways

Potentially complete air exposure pathways include:

- Inhalation of hazardous substances in soil vapor by visitors, residents, and workers (including excavation workers). The soil-to-vapor pathway for potential vapor intrusion is considered potentially complete as contaminants are present in the subsurface at concentrations that have the potential to migrate into indoor air. However, as part of building construction, a vapor barrier could be included into the design as well as a sub-slab depressurization (SSD) system to mitigate any potential vapor intrusion impacts to building occupants. The vapor barrier would act as just that; a barrier preventing potential vapors from migrating into the building through cracks, utility corridors, etc. The SSD system would complement the vapor barrier by redirecting any vapors that might collect beneath the slab to the outside air. The proposed environmental covenant will document the engineered controls in place (i.e., vapor barrier and SSD system) and any needed ongoing operation and maintenance (O&M) requirements to prevent any potential exposure.

3.5.4 Terrestrial Ecological Evaluation

The Property qualifies for the following exclusion from further consideration of the Terrestrial Ecological Evaluation:

- Barriers to Exposure: WAC 173-340-7491(1)(b) – All soil contamination is covered by physical barriers, such as building or paved roads) that prevent exposure to plants and wildlife, and institutional controls will be used to manage remaining contamination.
- Undeveloped Land: WAC 173-340-7491(1)(c) – There is less than 1.5 acres of contiguous undeveloped land on or within 500 feet of any area of the Site.

The Terrestrial Ecological Evaluation Form is included in Appendix A.

4.0 CLEANUP STANDARDS

The following sections identify applicable or relevant and appropriate requirements (ARARs), remedial action objectives (RAOs) and preliminary cleanup standards for the Property, which were developed to address Ecology's requirements for cleanup. These requirements address conditions relative to potential identified impacts. Together, ARARs, RAOs, and cleanup standards provide the framework for evaluating remedial alternatives.

4.1 Potentially Applicable Laws

All cleanup actions conducted under MTCA shall comply with applicable state and federal laws [WAC 173-340-710(1)]. MTCA defines applicable state and federal laws to include legally applicable requirements and those requirements that are relevant and appropriate. Collectively, these requirements are referred to as ARARs. The primary ARAR is the MTCA regulation (WAC 173-340), especially with regard to the development of cleanup levels and procedures for development and implementation of a cleanup under MTCA. ARARs for the Property cleanup also include the following:

- Federal Safe Drinking Water Act Maximum Contaminant Levels (MCLs; 40 CFR Part 141).
- Washington Clean Air Act (Chapter 70.94 RCW).
- Northwest Region Clean Air Agency (NWCAA) Regulations.
- Washington Solid and Hazardous Waste Management (RCW 70.105); Chapter 173-303 WAC; 40 CFR 241, 257; Chapter 173-350 and 173-351 WAC) and Land Disposal Restrictions (40 CFR 268; WAC 173-303-340).
- Washington Industrial Safety and Health Act (RCW 49.17) and other Federal Occupational Safety and Health Act (29 CFR 1910, 1926).

Federal MCLs are minimum requirements for drinking water. MTCA Method A cleanup levels for groundwater are set at least as low as federal MCLs. State and federal groundwater and air quality criteria are considered in the development of cleanup levels. State dangerous waste regulations may be applicable to contaminated soil removed from the Property.

4.2 Remedial Action Objectives (RAOs)

RAOs have been established for the Property to provide remedial alternatives that protect human health and the environment under the MTCA cleanup process (WAC 173-340-350). The primary RAO for this cleanup action focuses on substantially eliminating, reducing, and controlling

unacceptable risks to human health and the environment posed by the COCs, to the greatest extent practicable.

RAOs are important for the evaluation of the general response actions, technologies, process options, and cleanup action alternatives. Based on the assessment of Property-specific conditions and the potentially applicable cleanup levels presented below, the RAOs for the Property have been established as follows:

- *In a reasonable restoration time frame, reduce concentrations of COCs in Property soils, groundwater, and soil vapors to levels protective of human health and the environment and which are protective of groundwater quality.*

4.3 Cleanup Standards

Cleanup standards include cleanup levels and points of compliance (POCs) as described in WAC 173-340-700 through WAC 173-340-760. Cleanup standards must also incorporate other state and federal regulatory requirements applicable.

4.3.1 Cleanup Levels

MTCA Method A cleanup levels for the soil and groundwater exposure pathways are appropriate for this Property. MTCA Method B cleanup levels are appropriate for the air exposure pathway. These cleanup levels are based on the most stringent values for each exposure pathway and are considered appropriate for the Property COCs. The MTCA cleanup levels for the Property COCs are as follows:

<u>Constituent</u>	<u>Soil</u>	<u>Groundwater</u>	<u>Air</u>
• Diesel/oil-range TPH	2,000 mg/kg	500 µg/L	N/A
• Gasoline-range TPH	30 mg/kg	800 µg/L	N/A
• APH (EC5-8 aliphatics)	N/A	N/A	2,700 µg/m ³
• APH (EC9-12 aliphatics)	N/A	N/A	140 µg/m ³
• APH (EC9-10 aromatics)	N/A	N/A	180 µg/m ³
• Benzene	0.03 mg/kg	5 µg/L	0.321 µg/m ³
• PCE	0.05 mg/kg	5 µg/L	9.62 µg/m ³ *
• TCE	0.03 mg/kg	5 µg/L	0.37 µg/m ³ *
• cis-1,2-DCE	160 mg/kg*	16 µg/L*	NL
• trans-1,2-DCE	1,600 mg/kg*	160 µg/L*	NL
• Vinyl Chloride	0.67 mg/kg*	0.2 µg/L	0.28 µg/m ³ *

mg/kg = milligrams per kilogram

µg/m³ = micrograms per cubic meter

NL = Not Listed; no cleanup/screening levels have been promulgated for these constituents

* Method B cleanup level (Method A cleanup level not established)

4.3.2 Points of Compliance

For this Property, it is assumed that standard POC will be used.

- Soil – Direct Contact: For soil cleanup levels based on human exposure via direct contact, the POC is throughout the Property from the ground surface to 15 feet bgs.
- Soil – Leaching: For soil cleanup levels based on protection of groundwater, the POC is throughout the Property.
- Groundwater: For groundwater, the POC is throughout the Property from the uppermost level of the saturated zone extending vertically to the lowest most depth that could potentially be affected by the Property.
- Indoor Air/Soil Gas: The POC is ambient and indoor air throughout the Property.

5.0 FOCUSED FEASIBILITY STUDY

This Property is unique in that no release has occurred on Property and, as discussed in previous sections, contamination that is present is a result of migration from upgradient sources. Since upgradient sources are not actively being remediated, any efforts to cleanup what impacts are present on the Property would result in re-contaminating the Property. As such, AEG has elected to provide this focused feasibility study to outline potential options for achieving MTCA cleanup standards so that the Property would ultimately qualify for a Property-Specific No Further Action (NFA) determination.

Under MTCA, a site qualifies for a determination of NFA when MTCA cleanup standards have been achieved (i.e., when all site COCs meet the cleanup levels established for the site at the points of compliance for all media). If cleanup levels are unable to be met, institutional controls (typically in the form of an environmental covenant) may be used to ensure no exposure pathways are complete that may result in exposure to human health and the environment. The environmental covenant is typically recorded as part of the property deed to warn future property owners of the condition and restrict activities or use of the property that could result in exposure to the contamination.

As initially noted in Section 3.5, the Property is proposed to be developed with a zero-lot-line building. The preferred alternative for this Property would be to utilize the building as a cap to prevent direct contact exposure to any soil or groundwater impacts beneath the Property. Engineered controls would be incorporated into the structure of the building, including a vapor barrier and a sub-slab depressurization (SSD) system. The vapor barrier would be built into the foundation of the building as a first line of defense in preventing any potential soil vapor impacts from migrating into the structure, impacting the indoor air, and exposing building occupants via inhalation. The SSD system would be installed as a second line of defense in preventing any potential soil vapor impacts from migrating into the structure. It's a passive system used to redirect any impacted vapors that may collect beneath the building slab to the outside air. A small fan creates the pressure differential needed to prevent any vapor intrusion.

Once the building is constructed and engineered controls installed, institutional controls in the form of an environmental covenant will be recorded on the property deed. The covenant will include restrictions on groundwater use and requirements for maintaining the engineered controls, which will include some frequency of O&M and sampling of the SSD system, and periodic sampling of the indoor air.

This solution would meet the criteria specified in WAC 173-340-360(3)(f) and WAC 173-340-360(4) as follows:

1. Protectiveness – As explained in Section 3.5, with the institutional and engineered controls in place, the proposed remedy would be protective of all exposure pathways to human health and the environment. Construction is ready to be begin upon Ecology approval resulting in reduced time required to reduce risk and attain cleanup standards.
2. Permanence – The proposed remedy would be permanent to the extent the building remains in place, which is anticipated to be for the foreseeable future.
3. Effectiveness over the long term – The proposed remedy comes with a high degree of certainty of success, both initially and over the long term, in meeting cleanup standards and ensuring protection of human health and the environment.
4. Management of short-term risks – The only short-term risks include those typically associated with building construction. The engineered controls would be incorporated into the construction, and would not add to the risks.
5. Technical and administrative implementability – Installation of the vapor barrier and SSD system are proven and implementable technologies. Both can seamlessly be incorporated into building construction.
6. Consideration of public concerns – The proposed remedy will achieve cleanup standards and ensure protection of building occupants. AEG does not foresee any public concerns associated with the project.
7. Restoration time frame – As noted above, construction is ready to be begun upon Ecology approval resulting in the shortest restoration timeframe (over other potential alternatives) to reduce risk and attain cleanup standards.
8. Cost – The costs associated with this alternative are manageable, and would result in a high cost vs. benefit value as opposed to other alternatives (see discussion below).

For this Property to receive a Property-Specific NFA, Ecology guidance would suggest the need for cleanup of any contaminated groundwater beneath the Property, and installation of a barrier wall to prevent upgradient groundwater impacts from re-contaminating the Property. Further, monitoring wells would likely need to be constructed within the Property boundaries to monitor the effectiveness of the barrier. Based on our professional experience, it is AEG's opinion that the costs of performing a physical cleanup and installing such a barrier would be greatly disproportionate to the overall benefit over the preferred alternative for the following reasons:

- The COCs found in groundwater beneath the Property above MTCA cleanup levels include PCE and vinyl chloride. As noted in Section 3.4, these COCs can sink through the vadose zone, through the water table, and possibly penetrate leaking aquitards. While they've been detected in monitoring wells installed on Property up to 15 feet bgs, it is unknown how deep these impacts exist within the water column. As such, it is unknown how deep a barrier would need to be installed to be effective in preventing re-contamination. Based on work performed at other sites, estimated costs associated with such a barrier just to 15 feet bgs would range about \$450K-\$500K, not including costs for some cleanup action for the groundwater impacts.
- Soil and groundwater impacts would still be present on the north-adjointing property within the acceptable limit of lateral separation distance (30 feet for TPH and 100 feet for PCE) for potential vapor intrusion risks to the newly constructed building. As such, the engineered controls proposed as part of the preferred remedy would still be needed (along with institutional controls) to ensure protectiveness to human health and the environment.
- Costs associated with groundwater monitoring would add to the overall cost of this remedy without any overall benefit. As previously noted, the proposed preferred alternative would be protective of all exposure pathways as is, even with the current groundwater impacts. Groundwater monitoring would not serve any purpose other than to demonstrate whether a barrier is successful in preventing recontamination.
- The barrier would only redirect upgradient groundwater impacts to the adjacent properties (presuming it was installed deep enough). This doesn't reduce any risks with respect to the plume that already exists throughout this neighborhood. Its only purpose would be to (potentially) prevent groundwater from being re-contaminated beneath the Property, which has already been demonstrated in this report to not have any complete exposure pathways once the preferred remedy is implemented.

No other alternatives considered for this Property are likely to achieve cleanup standards within a reasonable timeframe or cost.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Findings and Conclusions

Findings and conclusions derived from the RI activities at the Property are as follows:

- A Phase I ESA for the Property identified adjacent and nearby upgradient sites that had the potential to impact the Property.
- RI activities performed on the Property confirmed the presence of PCE in saturated soil, PCE and vinyl chloride in groundwater, and TPH constituents in soil gas. All of these COCs are associated with the sites identified to be upgradient of the Property. Given a lack of historical activities performed on the Property that could potentially be a source of the COCs, the available data suggests they are present beneath the Property due to groundwater migration from upgradient.
- Groundwater gradients measured on the Property and at the upgradient sites have consistently been to the southeast, which further supports the source of the Property impacts being from the upgradient sites.
- A building with a zero-lot line is proposed to be constructed on the Property. The incorporation of engineered controls (such as a vapor barrier and SSD system) are proposed to be incorporated into the building design. With these engineered controls in place, along with institutional controls in the form of an environmental covenant and periodic monitoring of the SSD system and indoor air, no exposure pathways to human health or the environment would be complete.
- Use of a physical barrier and groundwater monitoring would significantly increase the cost and restoration timeframe of the preferred remedy, and would add little additional benefit.

6.2 Recommendations

Based on the work performed to date, AEG recommends the following:

- Submittal of this report to Ecology for their review and concurrence with the preferred remedy.
- Upon Ecology approval, draft a Cleanup Action Plan outlining how the recommended engineered controls are to be incorporated into the building design.

7.0 LIMITATIONS

This report summarizes the findings of the services authorized under our agreement with Mr. Shad Bernhoft and Walls Property Management. It has been prepared using generally accepted professional practices, related to the nature of the work accomplished. This report was prepared for the exclusive use of Mr. Shad Bernhoft and Walls Property Management and their designated representatives, for the specific application to the project purpose.

Recommendations, opinions, Site history, and proposed actions contained in this report apply to conditions and information available at the time this report was completed. Since conditions and regulations beyond our control can change at any time after completion of this report, or our proposed work, we are not responsible for any impacts of any changes in conditions, standards, practices, and/or regulations subsequent to our performance of services. We cannot warrant or validate the accuracy of information supplied by others, in whole or part.

8.0 REFERENCES

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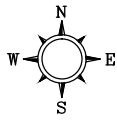
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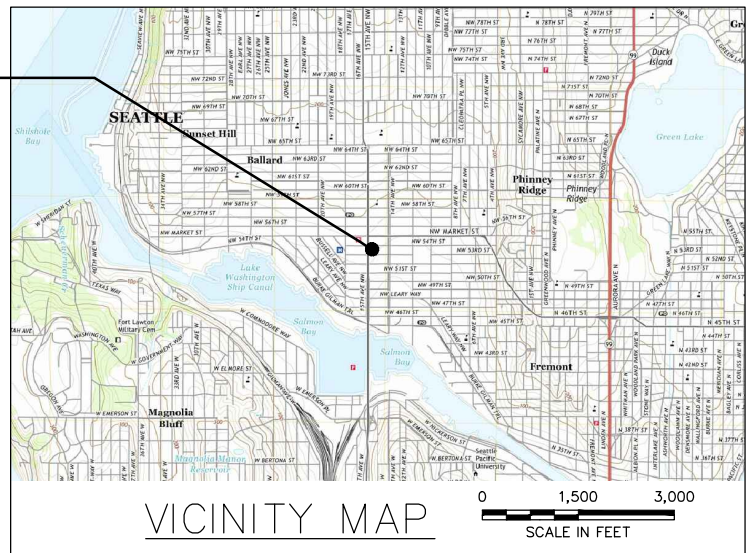
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FIGURES

FILENAME	DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
21-101_2102.DWG	ICD	6/8/2021	JS	6/8/2021



PROJECT LOCATION



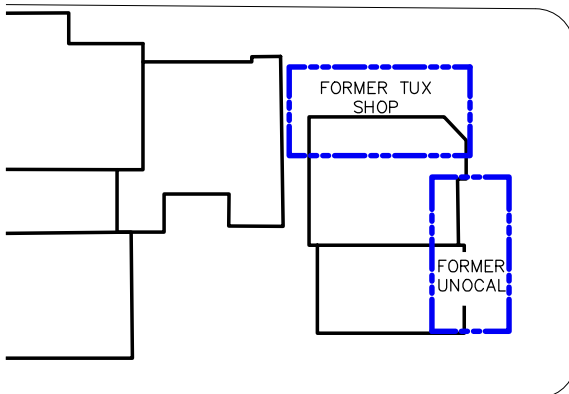
NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

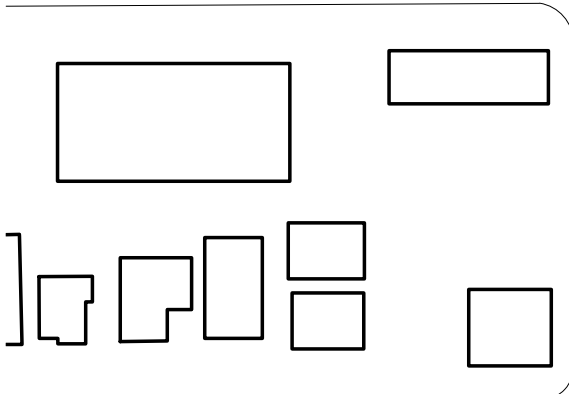
REFERENCE

DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.
VICINITY IMAGE SOURCE: U.S. GEOLOGICAL SURVEY-2020, 7.5 MINUTE QUADRANGLE MAP
SEATTLE NORTH, WASHINGTON

NW MARKET STREET

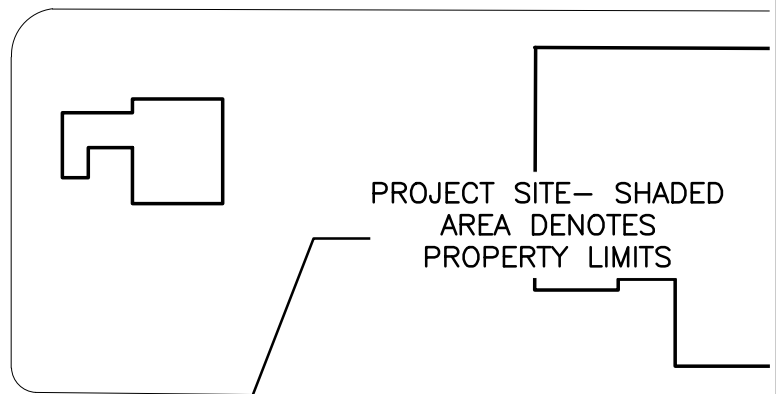


NW 54TH STREET

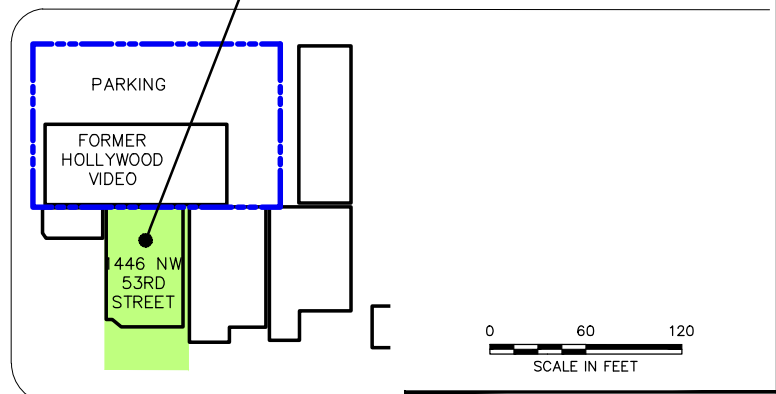


NW 53RD STREET

15TH AVENUE NW



NW 54TH STREET



NW 53RD STREET

0 60 120
SCALE IN FEET



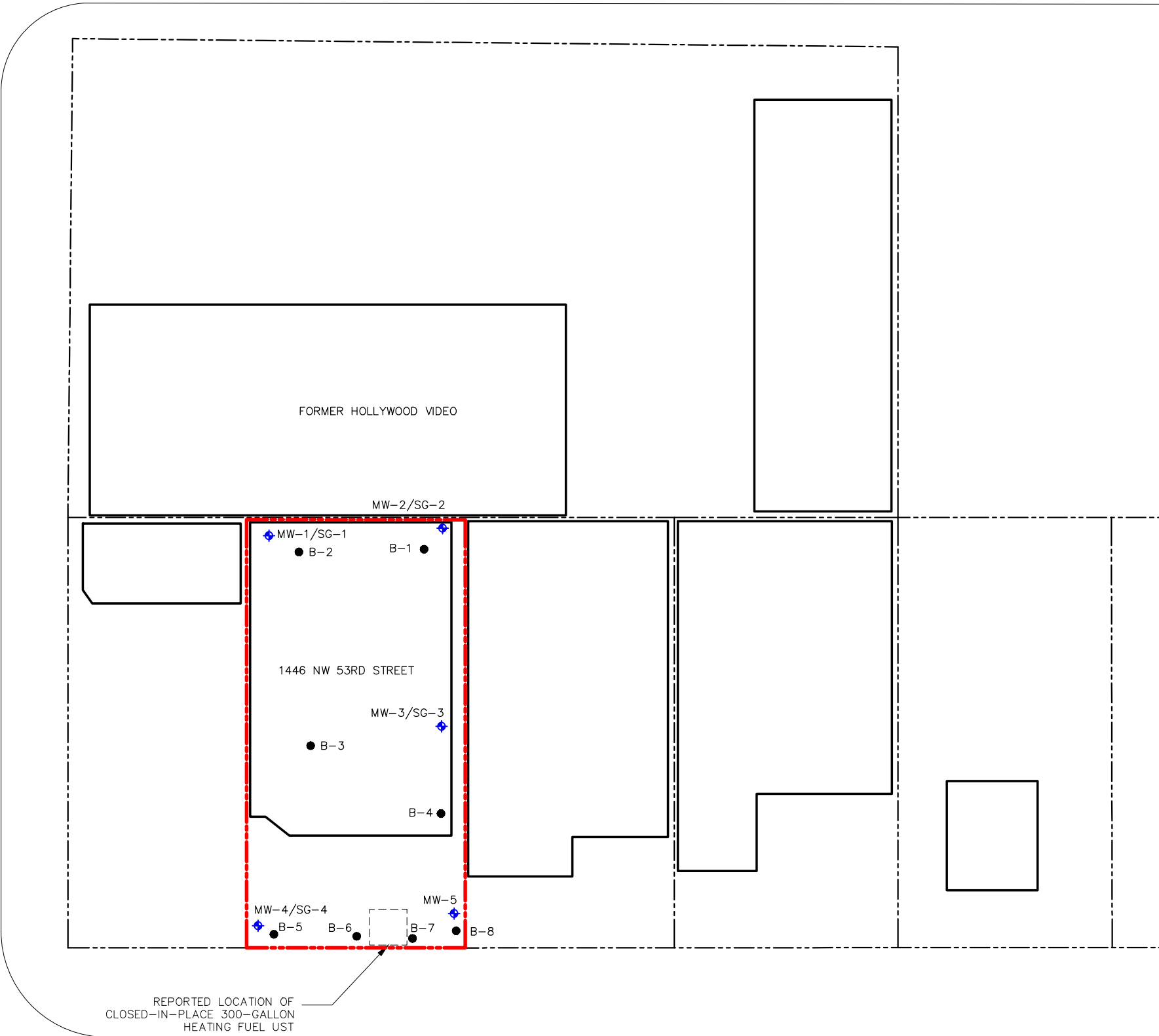
FIGURE 1

PROPERTY VICINITY MAP

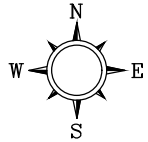
CHINOOK DEVELOPMENT

1446 NW 53RD STREET
SEATTLE, WASHINGTON

15TH AVENUE NW



NW 53RD STREET



LEGEND

- APPROXIMATE PROPERTY LINE
- APPROXIMATE SITE BOUNDARY
- B-1 ● BORING LOCATION (MAY 2021)
- MW-5 ◆ MONITORING WELL LOCATION

NOTES

1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

BASED ON FIGURES CREATED BY ENVIRONMENTAL PARTNERS, INC..

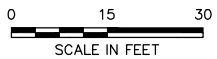
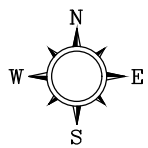
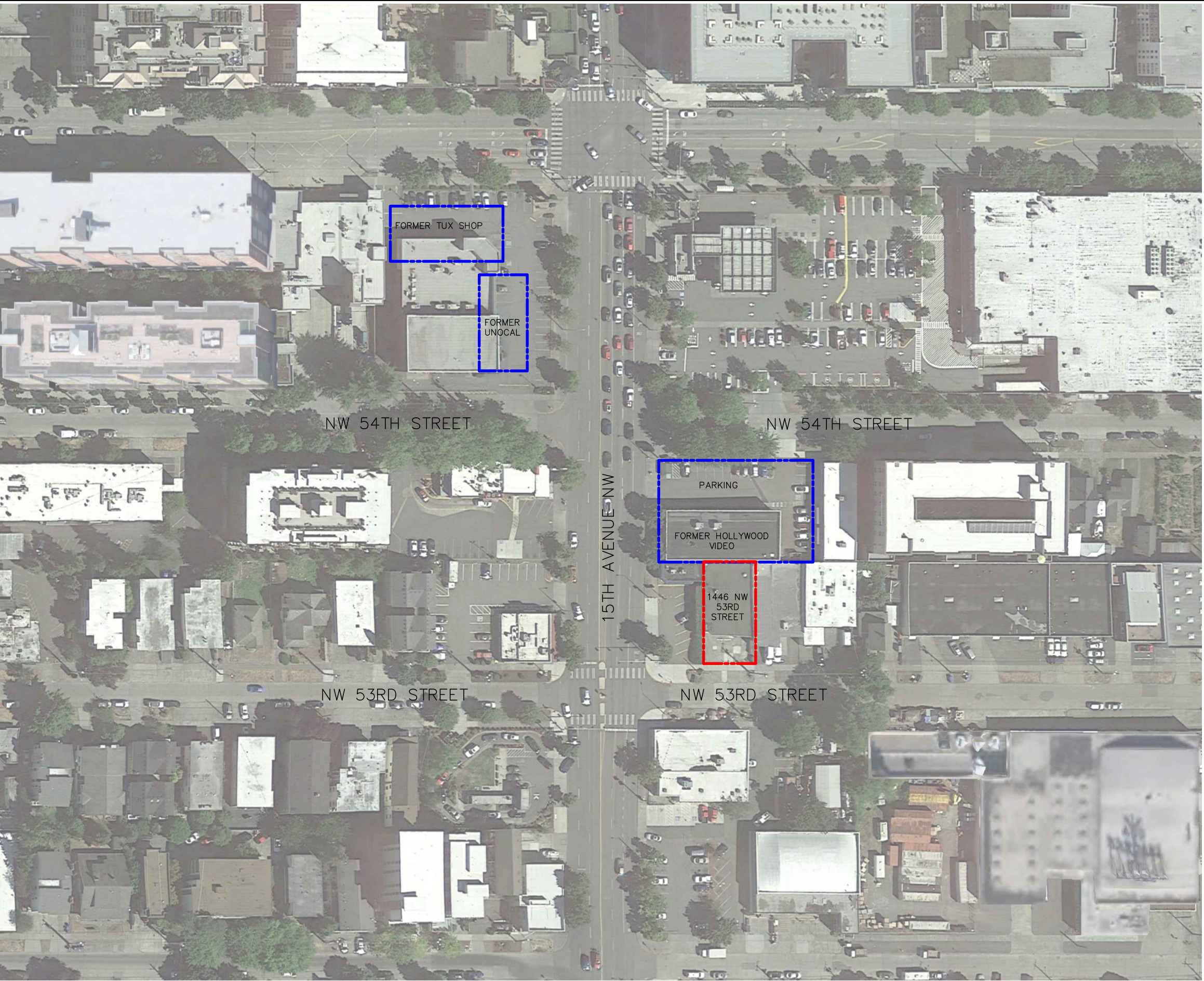


FIGURE 2
PROPERTY MAP

CHINOOK DEVELOPMENT
1446 NW 53RD STREET
SEATTLE, WASHINGTON

FILENAME 21-101_2102.DWG	DRAWN BY ICD	6/08/2021	JS	6/08/2021	APPROVED BY JS	6/08/2021	PROJECT NUMBER	21-101



LEGEND	
	APPROXIMATE SITE BOUNDARY
	APPROXIMATE PROPERTY BOUNDARY

NOTES	
1.	THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
2.	THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE	
DRAWING CREATED FROM AERIAL PHOTOGRAPH AND NOTES PROVIDED BY AEG, LLC.	

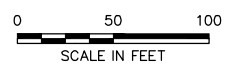
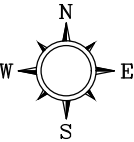
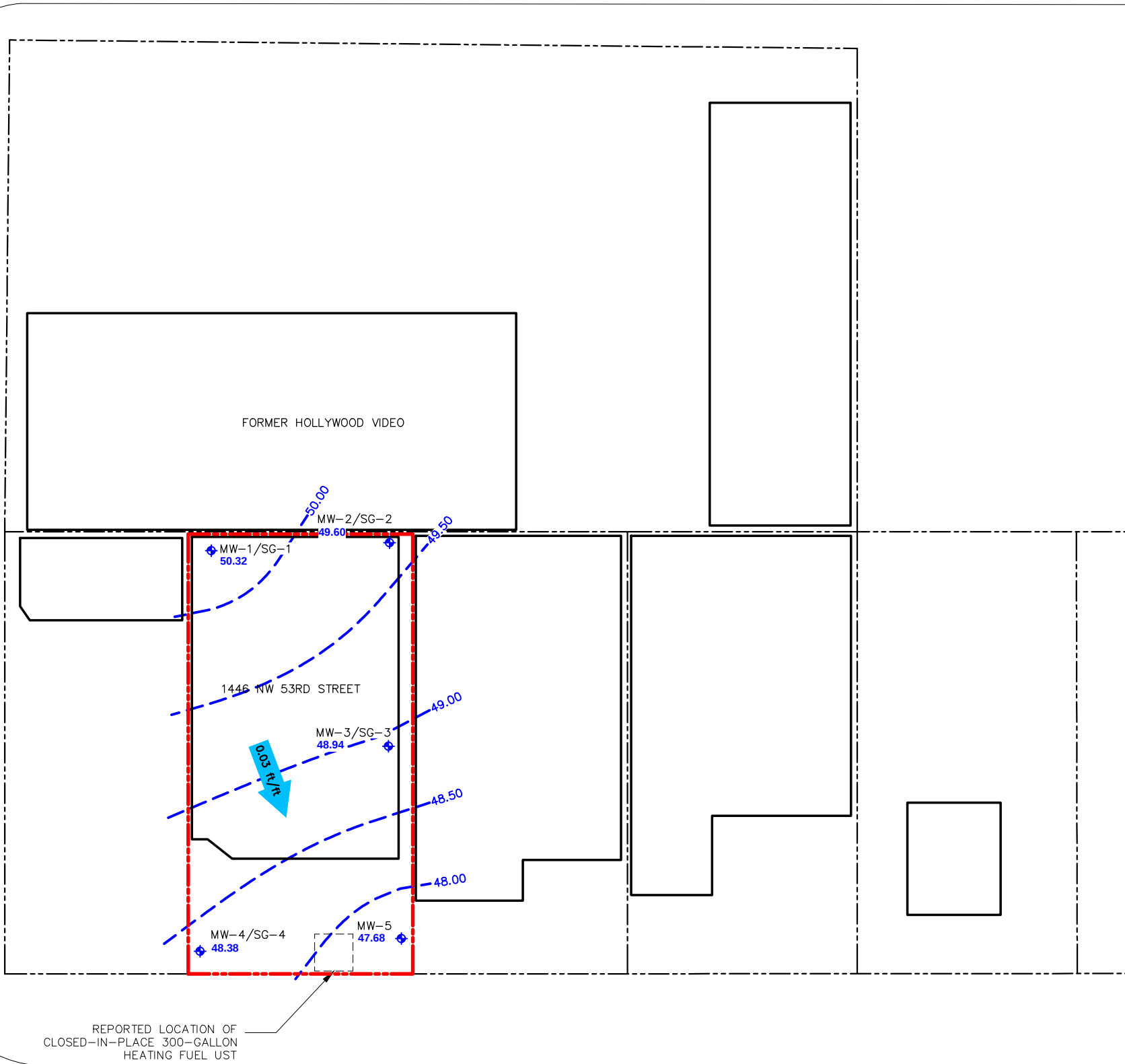


FIGURE 3
PROPERTY AREA MAP

CHINOOK DEVELOPMENT
1446 NW 53RD STREET
SEATTLE, WASHINGTON

FILENAME	DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
21-101_2103_2.DWG	ICD	JS	JS	21-101
	9/23/2021	9/23/2021	9/23/2021	

15TH AVENUE NW



LEGEND	
---	APPROXIMATE PROPERTY LINE
---	APPROXIMATE SITE BOUNDARY
MW-5	MONITORING WELL LOCATION
49.60	GROUNDWATER ELEVATION (FEET)
49.00	INFERRED GROUNDWATER ELEVATION CONTOUR (FEET)
	CONTOUR INTERVAL=0.50 FEET
0.03 ft/ft	APPROXIMATE GROUNDWATER GRADIENT DIRECTION (ft/ft)

- NOTES
1. THE LOCATIONS OF ALL FEATURES SHOWN ARE APPROXIMATE
 2. THIS DRAWING IS FOR INFORMATION PURPOSES. IT IS INTENDED TO ASSIST IN SHOWING FEATURES DISCUSSED IN AN ATTACHED DOCUMENT.

REFERENCE

BASED ON FIGURES CREATED BY ENVIRONMENTAL PARTNERS, INC..

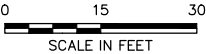


FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP
08/23/2021

CHINOOK DEVELOPMENT
1446 NW 53RD STREET
SEATTLE, WASHINGTON

TABLES

Table 1 - Summary of Soil Analytical Results

Chinook Development (21-101)

Seattle, Washington

Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds												
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDB	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Earth Solutions NW, LLC																		
B1-3	3	5/6/2021	<5.9	<32	<63	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B1-7.5	7.5	5/6/2021	<4.5	<27	<55	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B1-13.5	13.5	5/6/2021	<4.9	<29	<59	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	0.00094
B1-15	15	5/6/2021	<5.4	<30	<60	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.0014	<0.001	<0.001	<0.001	<0.001
B2-2	2	5/6/2021	<5.2	<30	<59	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B2-6	6	5/6/2021	<5.5	<29	<58	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B2-12	12	5/6/2021	<5.2	140	<57	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B2-14	14	5/6/2021	<4.8	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.0043	<0.001	<0.001	<0.001	<0.001
B3-4	4	5/6/2021	<5.7	<30	<60	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B3-8	8	5/6/2021	<5.1	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B3-11	11	5/6/2021	<5.6	<29	<57	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B3-14	14	5/6/2021	<4.6	<28	<57	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B4-3	3	5/7/2021	<6.0	<30	<59	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B4-6	6	5/7/2021	<4.8	<28	<55	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B4-9	9	5/7/2021	<4.3	<27	<54	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B4-12	12	5/7/2021	<5.0	<28	<55	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.0012	<0.001	<0.001	<0.001	<0.001
B5-2.5	2.5	5/7/2021	<8.1	<35	<70	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B5-5.5	5.5	5/7/2021	<5.5	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B5-9	9	5/7/2021	<4.9	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B5-13	13	5/7/2021	<4.7	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B6-4	4	5/7/2021	<6.0	<31	<61	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B6-8	8	5/7/2021	<4.6	<28	<55	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B6-12	12	5/7/2021	<4.2	<29	<57	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.0046	<0.001	<0.001	<0.001	<0.001
B6-14	14	5/7/2021	<4.4	<28	<55	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.0095	<0.001	<0.001	<0.001	<0.001
B7-3.5	3.5	5/7/2021	<7.2	<30	<69	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B7-6.5	6.5	5/7/2021	<4.7	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B7-9.5	9.5	5/7/2021	<4.8	<27	<55	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B7-12.5	12.5	5/7/2021	<4.8	<29	<57	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.0043	<0.001	<0.001	<0.001	<0.001
B8-5	5	5/7/2021	<4.7	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B8-8	8	5/7/2021	<2.8	<27	<54	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B8-11	11	5/7/2021	<5.3	<28	<56	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
B8-14	14	5/7/2021	<5.1	<29	<58	<0.001	<0.005	<0.001	<0.002	<0.001	<0.001	<0.001	<0.005	0.00087	<0.001	<0.001	<0.001	<0.001

Table 1 - Summary of Soil Analytical Results

Chinook Development (21-101)

Seattle, Washington

Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds												
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDB	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
AEG																		
MW1-13	13	8/3/2021	<10	<50	<250	<0.02	<0.10	<0.05	<0.15	--	--	--	--	0.051	<0.02	<0.03	<0.03	<0.02
MW2-13	13	8/3/2021	<10	<50	<250	<0.02	<0.10	<0.05	<0.15	--	--	--	--	<0.03	<0.02	<0.03	<0.03	<0.02
MW3-13	13	8/3/2021	<10	<50	<250	<0.02	<0.10	<0.05	<0.15	--	--	--	--	<0.03	<0.02	<0.03	<0.03	<0.02
MW4-13	13	8/3/2021	<10	<50	<250	<0.02	<0.10	<0.05	<0.15	--	--	--	--	<0.03	<0.02	<0.03	<0.03	<0.02
MW5-13	13	8/4/2021	<10	<50	<250	<0.02	<0.10	<0.05	<0.15	--	--	--	--	<0.03	<0.02	<0.03	<0.03	<0.02
MTCA Method A Cleanup Levels			100*	2,000**		0.03	7	6	9	0.005	NE	0.1	5	0.05	0.03	NE	NE	NE
MTCA Method B Cleanup Levels***			NE	NE	NE	18	6,400	8,000	16,000	0.5	11	560	1,600	480	12	160	1,600	0.67

Notes:

All values reported in milligrams per kilogram (mg/kg)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level**Bold** indicates the detected concentration is below Ecology MTCA Method A cleanup levels

* TPH-Gasoline Cleanup Level without the presence of Benzene anywhere at the Site

** Cleanup level is for the combined concentration of diesel and oil

*** Method B cleanup level; most stringent value (cancer vs. non-cancer) is shown.

EDB = Ethylene dibromide

EDC = 1,2-Dichloroethane

MTBE = Methyl tert-Butyl Ether

PCE = Tetrachloroethylene

TCE = Trichloroethylene

DCE = Dichloroethylene

NE = Not established; no Cleanup Level has been established for this constituent.

Table 2 - Summary of Groundwater Analytical Results

Chinook Development (21-101)

Seattle, Washington

Sample Number	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds												
		Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDB	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Earth Solutions NW, LLC																	
B1-W	5/6/2021	<100	610	350	0.47	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	1.1	0.89	0.8	<0.2	0.27
B2-W	5/6/2021	<100	370	<240	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	0.49	<0.2	<0.2	<0.2	<0.2
B3-W	5/6/2021	<100	<210	<210	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	4.2	<0.2	<0.2	<0.2	<0.2
B4-W	5/7/2021	<100	<210	250	<0.2	<1.0	<0.2	<0.4	<0.2	<0.2	<0.2	<1.0	17	0.75	0.68	<0.2	<0.2
B5-W	5/7/2021	<100	<240	420	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	0.66	<0.2	<0.2	<0.2	<0.2
B6-W	5/7/2021	<100	<240	610	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	18	0.28	0.5	<0.2	<0.2
B7-W	5/7/2021	<100	<240	320	<0.2	<1.0	<0.2	<0.2	<0.2	<0.2	<0.2	<1.0	24	0.27	0.29	<0.2	<0.2
B8-W	5/7/2021	170	320	320	<0.2	<1.0	<0.2	<0.4	<0.2	<0.2	<0.2	<1.0	44	1.1	1.5	<0.2	<0.2
AEG																	
MW-1	8/23/2021	<100	<200	<400	<1.0	<2.0	<1.0	<2.0	--	--	--	--	16	<0.4	<1.0	<1.0	<0.2
MW-2	8/23/2021	<100	<200	<400	<1.0	<2.0	<1.0	<2.0	--	--	--	--	4.9	4.6	2.2	<1.0	1.1
MW-3	8/23/2021	<100	<200	<400	<1.0	<2.0	<1.0	<2.0	--	--	--	--	11	0.49	<1.0	<1.0	<0.2
MW-4	8/23/2021	<100	<200	<400	<1.0	<2.0	<1.0	<2.0	--	--	--	--	0.84 J	<0.4	<1.0	<1.0	<0.2
MW-5	8/23/2021	<100	<200	<400	<1.0	<2.0	<1.0	<2.0	--	--	--	--	31	0.40	<1.0	<1.0	<0.2
PQL		100	210	210	1.0	1.0	1.0	1.0	0.2	0.20	0.20	0.1	0.2/1.0	0.2/0.4	0.2/1.0	0.2/1.0	0.2
MTCA Method A Cleanup Levels		800*	500**		5	1,000	700	1,000	0.01	5	20	160	5	5	NE	NE	0.2
MTCA Method B Cleanup Levels***		NE	NE	NE	0.8	640	800	1,600	0.022	0.48	24	160	21	0.54	16	160	0.029

Notes:

All values reported in micrograms per liter (µg/L)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

* TPH-Gasoline Cleanup Level with the presence of Benzene anywhere at the Site

** Cleanup level is for the combined concentration of diesel and oil

*** Method B cleanup level; most stringent value (cancer vs. non-cancer) is shown.

J = Result is less than the PQL but greater than the MDL. Reported value is approximate.

NE = Not established; no Cleanup Level has been established for this constituent.

EDC = 1,2-Dichloroethane

EDB = Ethylene Dibromide

MTBE = Methyl Tert-Butyl Ether

PCE = Tetrachloroethylene

TCE = Trichloroethylene

DCE = Dichloroethylene

PQL = Practical Quantification Limit (laboratory detection limit)

Table 3 - Summary of Upgradient Off-Property Soil Analytical Results
Chinook Development (21-101)
Seattle, Washington

Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds														Lead	Total cPAHs (TEF)
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDB	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride			
Former Tux Shop																					
MW-Tux1 (3.5)	3.5	Feb-91	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
MW-Tux1 (13.5)	13.5	Feb-91	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
MW-Tux2 (5.5)	5.5	Feb-91	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
MW-Tux2 (11)	11	Feb-91	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
MW-Tux3 (8.5)	8.5	Feb-91	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
MW-Tux3 (11)	11	Feb-91	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
KMW-01 (02-A)	5	Feb-94	--	--	--	--	--	--	--	--	--	--	--	0.037	ND	--	--	--	--	--	
KMW-01 (02-B)	10	Feb-94	--	--	--	--	--	--	--	--	--	--	--	0.028	ND	--	--	--	--	--	
KMW-02 (03-B)	10	Feb-94	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
KMW-03 (04-A)	5	Feb-94	--	--	--	--	--	--	--	--	--	--	--	0.36	ND	--	--	--	--	--	
KSB-02 (05-A)	5	Feb-94	--	--	--	--	--	--	--	--	--	--	--	1.5	ND	--	--	--	--	--	
KMW-04 (06-B)	10	Feb-94	--	--	--	--	--	--	--	--	--	--	--	0.25	ND	--	--	--	--	--	
KMW-05 (07-A)	5	Feb-94	--	--	--	--	--	--	--	--	--	--	--	0.8	ND	--	--	--	--	--	
KMW-05 (07-B)	10	Feb-94	--	--	--	--	--	--	--	--	--	--	--	0.32	ND	--	--	--	--	--	
HC-1/S-6	18.5	Dec-94	--	--	--	--	--	--	--	--	--	--	--	0.71	ND	--	--	--	--	--	
HC-1/S-12	27.5	Dec-94	--	--	--	--	--	--	--	--	--	--	--	0.23	ND	--	--	--	--	--	
HC-1/S16	33.5	Dec-94	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
HC-1/S-20	39.5	Dec-94	--	--	--	--	--	--	--	--	--	--	--	0.085	ND	--	--	--	--	--	
HC-2/S-4	14.5	Dec-94	--	--	--	--	--	--	--	--	--	--	--	0.59	ND	--	--	--	--	--	
HC-2/S-8	24.5	Dec-94	--	--	--	--	--	--	--	--	--	--	--	0.19	ND	--	--	--	--	--	
HC-2/S-11	32	Dec-94	--	--	--	--	--	--	--	--	--	--	--	ND	ND	--	--	--	--	--	
Former Unocal 5479																					
MW1-2	8	7/26/1990	<5.0	<5.0	--	<0.025	<0.025	<0.025	<0.025	--	--	--	--	--	--	--	--	--	--	--	
MW2-2	8	7/26/1990	--	--	--	<0.025	<0.025	<0.025	<0.025	--	--	--	--	--	--	--	--	--	--	--	
MW3-2	8	7/26/1990	190	<5.0	--	<0.25	0.11	0.26	1.3	--	--	--	--	--	--	--	--	--	--	--	
MW3-3	13	7/26/1990	1,900	<50	--	0.81	12	27	170	--	--	--	--	--	--	--	--	--	--	--	
MW4-2	8	7/26/1990	130	<5.0	--	<0.025	0.16	1.3	1.5	--	--	--	--	--	--	--	--	--	--	--	
MW5-2	8	7/26/1990	<5.0	<5.0	--	<0.025	0.029	<0.025	0.049	--	--	--	--	--	--	--	--	--	--	--	
TP1-5	10	1/25/1993	--	160	410	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
TP1-6	12	1/25/1993	--	66	130	--	--	--	--	<0.027	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.055	7.2	--	
TP1-7	14	1/25/1993	--	40	82	--	--	--	--	<0.027	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.055	--	--	
TP2-3	6	1/25/1993	--	<11	<44	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	
TP2-7	13	1/25/1993	--	<11	<44	--	--	--	--	<0.028	<0.011	--	--	0.042	<0.011	<0.011	<0.011	<0.056	--	--	
TP3-1	2	1/25/1993	--	680	2,700	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5	--	
TP3-7	13	1/25/1993	--	<12	<48	--	--	--	--	<0.025	<0.010	--	--	0.13	<0.010	<0.010	<0.010	<0.050	--	--	
TP4-3	6	1/25/1993	1,200	--	--	<0.55	3.4	10	41	--	--	--	--	--	--	--	--	--	--	--	
TP4-6	12	1/25/1993	1,600	--	--	0.93	6.2	16	71	<0.028	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.057	5.0	--	
TP5-5	10	1/26/1993	190	--	--	<0.027	0.14	1.3	4.9	--	--	--	--	--	--	--	--	--	5.1	--	
TP5-7	13	1/26/1993	660	--	--	0.39	1.1	5.3	9.3	<0.029	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.057	--	--	
TP6-5	10	1/26/1993	11,00	--	--	24	150	140	720	--	--	--	--	--	--	--	--	--	--	--	
TP6-6	12	1/26/1993	2,500	--	--	2.4	22	28	160	<0.030	<0.012	--	--	<0.012	<0.012	<0.012	<0.012	<0.060	4.2	--	
TP7-5	10	1/26/1993	13	--	--	<0.028	<0.028	<0.028	0.057	--	--	--	--	--	--	--	--	--	<1.8	--	
TP7-6	12	1/26/1993	<6.0	--	--	<0.027	<0.027	<0.027	<0.027	<0.027	<0.011	--	--	0.016	<0.011	<0.011	<0.011	<0.055	--	--	
TP8-6	12	1/26/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	<0.028	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.056	2.0	--	
TP9-2	4	1/26/1993	--	120	330	--	--	--	--	<0.029	<0.012	--	--	<0.012	<0.012	<0.012	<0.012	<0.059	20	--	
TP10-1	10.5	1/26/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	<0.028	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.056	--	--	
TP11-1	6	1/26/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--	
TP11-2	10	1/26/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	<0.027	<0.011	--	--	0.017	<0.011	<0.011	<0.011	<0.054	--	--	
TP12-6	12	1/27/1993	--	<11	<44	--	--	--	--	<0.028	<0.011	--	--	0.14	<0.011	<0.011	<0.011	<0.055	--	--	
TP13-3	6	1/27/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	1.9	--	
TP13-5	10	1/27/1993	<6.0	--	--	<0.028	0.041	<0.028	<0.028	<0.028	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.055	--	--	
TP14-3	6	1/27/1993	<5.0	--	--	<0.027	0.033	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--	
TP14-6	12	1/27/1993	27	--	--	<0.029	0.11	0.27	1.5	<0.029	<0.012	--	--	0.066	<0.012	<0.012	<0.012	<0.059	<1.9	--	
TP15-4	8	1/27/1993	<6.0	--	--	<0.027	<0.027	<0.027	0.029	--	--	--	--	--	--	--	--	--	<1.8	--	
TP15-7	12	1/27/1993	<6.0	--	--	<0.027	0.033	<0.027	0.054	<0.027	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.055	--	--	
TP16-6	10	1/27/1993	490	--	--	0.35	1.0	3.7	18	<0.029	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.057	--	--	
TP17-3	7	1/27/1993	--	290	<48	--	--	--	--	<0.030	<0.012	--	--	<0.012	<0.012	<0.012	<0.012	<0.60	95	--	
TP18-5	12	1/27/1993	--	--	--	--	--	--	--	<0.027	<0.011	--	--	<0.011	<0.011	<0.011	<0.011	<0.055	--	--	
S-1	8	2/2/1993	<20	<50	--	--	--	--	--	<0.030	<0.012	--	--	0.031	<0.012	<0.012	<0.012	<0.061	47	--	
S-2	3.5	2/2/1993	--	--	--	--	--	--	--	<0.028	<0.011	--	--	0.057	<0.011	0.20	<0.011	<0.057	77	--	
S-3	8	2/2/1993	<20	<50	--	--	--	--	--	<0.032	<0.013	--	--	<0.013	<0.013	<0.013	<0.013	<0.065	52	--	
EX1-8.5	8.5	3/17/1993	630	660	6,600	0.039	0.17	1.1	8.0	<0.030	<0.012	--	--	<0.012	<0.012	<0.012	<0.012	<0.061	--	--	
EX2-8.5	8.5	3/17/1993	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX3-8.5	8.5	3/17/1993	330	15	<43	0.24	2.8	2.0	13	<0.027	<0.011	--	--	0.34	<0.011	<0.011	<0.011	<0.054	--	--	
EX4-8.5	8.5	3/17/1993	<20	<50	<100	--	--	--	--	<0.031	<0.012	--	--	0.19	<0.012	<0.012	<0.012	<0.062	--	--	
EX5-8.5	8.5	3/18/1993	<20	<50	<100	--	--	--	--	<0.028	<0.011	--	--	0.035	<0.011	<0.011	<0.011	<0.056	--	--	
EX6-8.5	8.5	3/18/1993	<20	<50	<100	--	--	--	--	<0.030	<0.012	--	--	0.086	<0.012	<0.012	<0.012	<0.060	--	--	
EX7-8.5	8.5	3/18/1993	160	230	<51	<0.032	<0.032	0.11	0.29	<0.032	<0.013	--	--	<0.013	<0.013	<0.013	<0.013	<0.064	--	--	
EX8-5.2	5.2	3/18/1993	<20	<50	<100	--	--	--	--	<0.030	<0.012	--	--	0.045	<0.012	<0.012	<0.012	<0.060	--	--	
SP-1	--	3/18/1993	<20	<50	170	--	--	--	--	<0.030	<0.012	--	--	0.027	<0.012	<0.012	<0.012	<0.060	--	--	
SP-2	--	3/18/1993	<20	65	340	--	--	--	--	<0.029	<0.011	--	--	0.037	<0.011	<0.011	<0.011	<0.057	--	--	
SP-3	--	3/18/1993	<20	<50	130	--	--	--	--	<0.029	<0.011	--	--	0.03	<0.011	<0.011	<0.011	<0.57	--	--	
G1-13	13	9/16/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--	
G2-12.5	12.5	9/16/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--	
G3-9	9	9/17/1993	<6.0	<11	<46	<0.029	<0.029	<0.029	<0.029	--	--	--	--	--	--	--	--	--	--	--	
G4-9.5	9.5	9/17/1993	<6.0	<11	<45	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--	
G5-12	12	9/17/1993	<5.0	<11	<44	<0.027	<0.027	<0.027	<0.027	--	--	--	--								

Table 3 - Summary of Upgradient Off-Property Soil Analytical Results																				
Chinook Development (21-101)																				
Seattle, Washington																				
Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds													Lead	Total cPAHs (TEF)
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDB	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride		
G26-12.5	12.5	9/30/1993	--	<11	<44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
W1-22	22	9/17/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G27-12	12	8/4/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G28-21	21	8/8/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G29-12.5	12.5	8/8/1994	<6.0	--	--	<0.028	<0.028	0.029	0.055	--	--	--	--	--	--	--	--	--	--	--
G30-6	6	8/8/1994	<6.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G31-6	6	8/8/1994	<6.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G32-14	14	8/9/1994	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G33-14	14	8/9/1994	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G34-12	12	8/10/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G35-11	11	8/10/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G36-13	13	8/10/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G37-14	14	8/10/1994	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G38-14	14	8/11/1994	<6.0	--	--	<0.029	<0.029	<0.029	<0.029	--	--	--	--	--	--	--	--	--	--	--
G39-13	13	8/12/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G40-13	13	8/12/1994	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G42-14	14	8/12/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G43-10	10	8/12/1994	--	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G44-14	14	8/23/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G45-12	12	8/23/1994	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G46-13	13	8/24/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G47-14	14	8/24/1994	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
G48-13	13	8/24/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G49-15	15	8/24/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G50-15	15	8/25/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G51-13.5	13.5	8/25/1994	1,300	--	--	0.89	4.2	10	58	--	--	--	--	--	--	--	--	--	--	--
G52-13	13	8/25/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
G53-12	12	8/25/1994	<6.0	--	--	<0.029	<0.029	<0.029	<0.029	--	--	--	--	--	--	--	--	--	--	--
G54-12	12	8/25/1994	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
HW1-7.5	8	9/20/1993	--	<11	<44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HW2-8	8	9/20/1993	--	<11	<44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HW3-5	5	9/20/1993	--	<11	<43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HW4-8	8	9/20/1993	--	<11	<43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HW5-5	5	9/20/1993	--	<11	<43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CS1-8.5	8.5	9/28/1993	--	<11	<43	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--
CS2-8	8	9/28/1993	2,500	820	58	<0.55	0.92	<0.55	10	--	--	--	--	<0.5	--	--	--	--	--	--
CS3-12	12	9/29/1993	<6.0	--	--	<0.03	<0.03	<0.03	<0.03	--	--	--	--	--	--	--	--	--	--	--
CS4-8.5	8.5	9/29/1993	<5.0	<11	<43	--	--	--	--	--	--	--	--	<0.5	--	--	--	--	--	--
CS5-12.5	12.5	9/29/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
CS6-9	9	9/29/1993	<6.0	--	--	<0.029	<0.029	<0.029	<0.029	--	--	--	--	--	--	--	--	--	--	--
CS7-12	12	9/29/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
CS8-11	11	9/29/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
CS9-12	12	9/29/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
CS10-12.5	12.5	9/29/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
CS11-12	12	9/29/1993	190	--	--	<0.028	0.092	0.43	0.95	--	--	--	--	<0.5	--	--	--	--	--	--
CS12-12	12	9/29/1993	<6.0	--	--	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
CS13-12.5	12.5	9/29/1993	<5.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
H1-7	7	8/1/1994	<6.0	--	--	<0.027	<0.027	<0.027	<0.027	--	--	--	--	--	--	--	--	--	--	--
H2-10	10	8/1/1994	<6.0	<11	<45	<0.028	<0.028	<0.028	<0.028	--	--	--	--	--	--	--	--	--	--	--
H3-12.5	12.5	8/1/1994	<6.0	<12	<48	<0.03	<0.03	<0.03	<0.03	--	--	--	--	--	--	--	--	--	--	--

Table 3 - Summary of Upgradient Off-Property Soil Analytical Results
Chinook Development (21-101)
Seattle, Washington

Sample Number	Depth Collected (feet)	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds													Lead	Total cPAHs (TEF)
			Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDB	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride		
BSB7-10	10	1/23/2001	<350	650	<50	<2.0	<0.01	5.8	42	--	--	<2.0	57	<2.0	--	--	--	--	--	ND
BSB7-14.5	14.5	1/23/2001	<350	650	<50	<0.5	<0.5	1.5	7.6	--	--	<0.5	18.8	1.1	--	--	--	--	--	ND
BSB8-5	5	1/23/2001	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	0.032
BSB8-14.5	14.5	1/23/2001	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	ND
BSB9-2.5	2.5	1/23/2001	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	ND
BSB9-5	5	1/23/2001	<180	460	<50	<0.5	<0.5	5.1	17	--	--	<0.5	49.2	<0.5	--	--	--	--	--	ND
BSB9-10	10	1/23/2001	<30	110	<50	<0.2	0.28	1.7	11.6	--	--	<0.2	13.6	<0.2	--	--	--	--	--	ND
BSB10B-5	5	1/23/2001	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	0.05	<0.01	--	--	--	--	--	0.401
BSB10B-10	10	1/23/2001	3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	ND
BSB10B-14.5	14.5	1/23/2001	<220	3,300	<500	<0.2	0.2	2.1	8.9	--	--	<0.2	17.9	<0.2	--	--	--	--	--	ND
BSB11-5	5	1/23/2001	6.0	210	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	0.094
BSB11-10	10	1/23/2001	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	ND
BSB11-14.5	14.5	1/23/2001	<160	4,000	<2,500	<0.2	<0.2	2.0	2.1	--	--	<0.2	42.6	<0.2	--	--	--	--	--	ND
MW1-5	5	1/28/2002	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	0.21	<0.01	--	--	--	--	--	ND
MW1-10	10	1/28/2002	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	0.55	<0.01	--	--	--	--	--	ND
MW2-5	5	1/28/2002	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	ND
MW2-10	10	1/28/2002	<3.0	<25	<50	<0.01	<0.01	<0.01	<0.03	--	--	<0.01	ND	<0.01	--	--	--	--	--	ND
PQL			PQL Varies																	
MTCA Method A Cleanup Levels			100*	2,000**		0.03	7	6	9	0.005	NE	0.1	5	0.05	0.03	NE	NE	NE	250	0.1
MTCA Method B Cleanup Levels***			NE	NE	NE	18	6,400	8,000	16,000	0.5	11	560	1,600	480	12	160	1,600	0.67	NE	0.19

Notes:
All values reported in milligrams per kilogram (mg/kg)
-- = Not analyzed for constituent
< = Not detected at the listed laboratory detection limits
Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level
Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels
* TPH-Gasoline Cleanup Level without the presence of Benzene anywhere at the Site
** Cleanup level is for the combined concentration of diesel and oil
*** Method B cleanup level; most stringent value (cancer vs. non-cancer) is shown.

EDB = Ethylene dibromide
EDC = 1,2-Dichloroethane
PCE = Tetrachloroethylene
TCE = Trichloroethylene
DCE = Dichloroethylene
PQL = Practical Quantification Limit (laboratory detection limit)
NE = Not established; no Cleanup Level has been established for this constituent.
ND = Not Detected

MTBE = Methyl tert-butyl ether
cPAHs = Carcinogenic polycyclic aromatic hydrocarbons
TEF = Toxicity Equivalency Factor; MTCA Table 708-2

Table 4 - Summary of Upgradient Off-Property Groundwater Analytical Results
Chinook Development (21-101)
Seattle, Washington

Sample Number	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds												Lead	Total cPAHs (TEF)
		Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethylbenzene	Xylenes	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride		
Former Tux Shop																		
MW-Tux1	Mar-91	--	--	--	--	--	--	--	--	--	--	1.4	ND	ND	--	ND	--	--
	May-91	--	--	--	--	--	--	--	--	--	--	0.71	ND	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	81	ND	ND	--	ND	--	--
MW-Tux2	Mar-91	--	--	--	--	--	--	--	--	--	--	32,000	52	26	--	ND	--	--
	May-91	Well Dry - No Sample Collected																
	Sep-94	Well Dry - No Sample Collected																
MW-Tux3	Mar-91	--	--	--	--	--	--	--	--	--	--	17,000	ND	ND	--	ND	--	--
	May-91	--	--	--	--	--	--	--	--	--	--	30,000	ND	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	7,600	160	ND	--	ND	--	--
KMW-1	Feb-94	--	--	--	--	--	--	--	--	--	--	1,200	10	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	1,200	ND	ND	--	ND	--	--
KMW-2	Mar-94	--	--	--	--	--	--	--	--	--	--	690	1.0	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	310	ND	ND	--	ND	--	--
KMW-3	Mar-94	--	--	--	--	--	--	--	--	--	--	1,800	3.0	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	13,000	ND	ND	--	ND	--	--
KMW-4	Mar-94	--	--	--	--	--	--	--	--	--	--	41,000	28	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	20,000	ND	ND	--	ND	--	--
KMW-5	Mar-94	--	--	--	--	--	--	--	--	--	--	62,000	180	ND	--	ND	--	--
	Sep-94	--	--	--	--	--	--	--	--	--	--	100,000	1,100	ND	--	ND	--	--
MW-1A	Sep-94	--	--	--	--	--	--	--	--	--	--	210	77	150	--	58	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	4.1	ND	ND	--	ND	--	--
MW-2A	Sep-94	--	--	--	--	--	--	--	--	--	--	880	4.4	16	--	ND	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	380	ND	24	--	ND	--	--
MW-3A	Sep-94	--	--	--	--	--	--	--	--	--	--	370	79	180	--	ND	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	30	ND	ND	--	ND	--	--
MW-4A	Sep-94	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	--	ND	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	--	ND	--	--
MW-5A	Sep-94	--	--	--	--	--	--	--	--	--	--	12	4.7	56	--	ND	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	51	18	110			--	--
HC-1W	Dec-94	--	--	--	--	--	--	--	--	--	--	21,000	100	4.0	--	ND	--	--
	Jun-95	--	--	--	--	--	--	--	--	--	--	13,000	1,000	53	--	ND	--	--
	Jul-95	--	--	--	--	--	--	--	--	--	--	20,000	490	ND	--	ND	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	26,000	420	33	--	ND	--	--
HC-1D	Jul-95	--	--	--	--	--	--	--	--	--	--	34	ND	--	--	ND	--	--
	Apr-96	--	--	--	--	--	--	--	--	--	--	22	ND	ND	--	ND	--	--
HC-3	May-96	--	--	--	--	--	--	--	--	--	--	250	5.2	9.5	--	ND	--	--
HC-4	Apr-96	--	--	--	--	--	--	--	--	--	--	23,000	ND	ND	--	ND	--	--
	May-96	--	--	--	--	--	--	--	--	--	--	21,000	ND	ND	--	ND	--	--
HC-5	Jun-96	--	--	--	--	--	--	--	--	--	--	2,100	ND	ND	--	ND	--	--
SP-1A	Mar-96	--	--	--	--	--	--	--	--	--	--	8.7	1.1	3.3	--	ND	--	--
SP-1B	Mar-96	--	--	--	--	--	--	--	--	--	--	3.1	ND	ND	--	ND	--	--
SP-2B	Mar-96	--	--	--	--	--	--	--	--	--	--	160	6.3	10	--	ND	--	--
SP-3	Apr-96	--	--	--	--	--	--	--	--	--	--	48	ND	ND	--	ND	--	--
SP-4	Apr-96	--	--	--	--	--	--	--	--	--	--	74	1.1	ND	--	ND	--	--
SP-5	Apr-96	--	--	--	--	--	--	--	--	--	--	59	ND	ND	--	ND	--	--
SP-6	Apr-96	--	--	--	--	--	--	--	--	--	--	8,900	8.8	4.5	--	ND	--	--
SP-7	Apr-96	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	--	ND	--	--
Former Unocal 5479																		
MW-1	8/3/1990	--	--	--	19	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--
	8/24/1990	--	--	--	<50	<50	<50	<50	--	--	--	5,700	23	<20	<20	<50	--	--
	3/10/1992	3,100	<500	--	540	85	22	31	--	--	--	47	56	220	--	<40	--	--
	6/26/1992	170	--	--	140	17	8	4	--	--	--	74	28	260	--	--	--	--
	12/10/1992	100	--	--	17	<1.0	<1.0	<1.0	--	--	--	37	14	37	--	--	--	--
MW-1A	9/27/1994	150	630	<750	71	0.82	<0.50	1.5	--	--	--	200	89	170	--	--	--	--
MW-2	8/3/1990	--	--	--	<2,500	<2,500	<2,500	<2,500	--	--	--	98,000	<1,000	<1,000	--	<2,500	--	--
	8/24/1990	--	--	--	<5,000	89,000	<5,000	<5,000	--	--	--	89,000	<1,000	<1,000	<2,000	<5,000	--	--
	3/10/1992	2,500	<500	--	<0.5	<0.5	<0.5	<0.5	--	--	--	5,300	17	69	--	<400	--	--
	6/26/1992	2,900	--	--	<5.0	<5.0	<5.0	2.0	--	--	--	6,400	14	53	--	--	--	--
	12/10/1992	1,200	--	--	<5.0	<5.0	<5.0	<5.0	--	--	--	4,100	10	54	--	--	--	--
MW-2A	9/27/1994	340	<250	<750	<0.50	<0.50	<0.50	<1.0	--	--	--	640	4.4	16	--	--	--	--
MW-3	8/3/1990	--	--	--	1,900	3,900	2,500	11,000	--	--	--	--	--	--	--	--	--	--
	8/24/1990	--	--	--	2,100	2,900	2,000	10,000	--	--	--	<200	<200	<200	<200	<500	--	--
	3/10/1992	19,000	12,000	--	900	630	890	4,200	--	--	--	<50	<50	190	--	<100	--	--
	6/26/1992	30,000	--	--	1,200	1,700	1,200	6,000	--	--	--	11	<5.0	220	--	--	--	--
	12/10/1992	32,000	--	--	990	950	520	5,200	--	--	--	<5.0	<5.0	200	--	--	--	--
MW-3A	9/27/1994	4,600	440	<750	46	5.9	30	650	--	--	--	300	93	210	--	--	--	--

Table 4 - Summary of Upgradient Off-Property Groundwater Analytical Results
Chinook Development (21-101)
Seattle, Washington

Sample Number	Date Collected	Total Petroleum Hydrocarbons			Selected Volatile Organic Compounds												Lead	Total cPAHs (TEF)	
		Gasoline	Diesel	Heavy Oil	Benzene	Toluene	Ethyl-benzene	Xylenes	EDC	MTBE	Total Naphthalenes	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride			
MW-4	8/3/1990	--	--	--	2.8	16	18	70	--	--	--	170	<0.2	<0.2	--	<0.5	--	--	
	8/24/1990	--	--	--	2,800	6,100	410	2,200	--	--	--	180	<20	<20	<20	<50	--	--	
	3/10/1992	3,100	11,000	--	69	5.7	130	220	--	--	--	4.2	<5.0	<5.0	--	<10	--	--	
	6/26/1992	1,600	--	--	41	3.0	41	87	--	--	--	11	2.0	<1.0	--	--	--	--	
	12/10/1992	600	--	--	2.0	<1.0	<1.0	14	--	--	--	2.0	<2.0	<1.0	--	--	--	--	
MW-4A	9/27/1994	<50	340	<750	<0.50	<0.50	<0.50	<1.0	--	--	--	<1.0	<1.0	<1.0	--	--	--	--	
MW-5	8/3/1990	--	--	--	960	650	290	1,100	--	--	--	--	--	--	--	--	--	--	
	8/24/1990	--	--	--	3,600	5,300	1,400	5,400	--	--	--	68	59	320	<20	<50	--	--	
	3/10/1992	1,800	2,100	--	260	20	49	96	--	--	--	60	20	190	--	<10	--	--	
	6/26/1992	11,000	--	--	2,700	1,700	370	1,600	--	--	--	19	6.0	180	--	--	--	--	
	12/10/1992	12,000	--	--	1,500	1,400	200	1,400	--	--	--	150	52	170	--	--	--	--	
MW-5A	9/27/1994	<50	320	<750	3.0	<0.50	<0.50	<1.0	--	--	--	12	4.7	56	--	--	--	--	
Wendy's Restaurant																			
MW-1	7/8/1997	<50	<250	<500	<1.0	<1.0	<1.0	<3.0	<5.0	--	--	<5.0	<5.0	<5.0	<5.0	<10	<4.0	<4.0	
MW-2	7/8/1997	<50	<250	<500	<1.0	<1.0	<1.0	<3.0	<5.0	--	--	<5.0	<5.0	<5.0	<5.0	<10	<4.0	<4.0	
MW-3	7/8/1997	<50	<250	<500	<1.0	<1.0	<1.0	<3.0	<5.0	--	--	<5.0	<5.0	<5.0	<5.0	<10	<4.0	<4.0	
MW-4	7/8/1997	<50	<250	<500	<1.0	1.0	<1.0	<3.0	<5.0	--	--	12,000	16	15	<5.0	<10	<4.0	<4.0	
Former Hollywood Video																			
BSB1	11/29/2001	4,800	<250	<500	3.0	14	<2.0	360	--	<2.0	--	770	41	24	<2.0	<2.0	--	--	
BSB2	11/29/2001	<50	<150	<250	<2.0	<2.0	<2.0	<4.0	--	<2.0	--	7.0	12	5.0	<2.0	<2.0	--	--	
BSB3	11/29/2001	420	<130	<250	<1.0	<1.0	<1.0	<3.0	--	<3.0	--	--	--	--	--	--	--	--	
BSB4	11/29/2001	<50	<130	<250	<1.0	<1.0	<1.0	<3.0	--	<3.0	--	--	--	--	--	--	--	--	
BSB5	11/29/2001	630	1,500	<250	<2.0	<2.0	<2.0	<4.0	--	<2.0	--	310	88	63	<2.0	<2.0	--	--	
BSB6	11/29/2001	<50	<130	<250	<1.0	<1.0	<1.0	<3.0	--	<3.0	--	--	--	--	--	--	--	--	
BSB7	1/23/2002	59,000	<130	<250	<200	<200	2,400	13,600	--	<200	2,590	4,500	550	350	<200	<200	--	ND	
BSB8	1/23/2002	<50	<130	<250	<2.0	<2.0	<2.0	<6.0	--	<2.0	<2.53	470	3.0	<2.0	<2.0	<2.0	--	ND	
BSB9	1/23/2002	60,000	430	<250	780	5,700	5,300	27,500	--	<200	5,640	440	680	4,400	<200	<200	--	ND	
BSB10	1/23/2002	37,000	77,000	<5,000	3,300	3,700	1,400	7,000	--	<50	2,350	<50	<50	280	<50	230	--	ND	
BSB11	1/23/2002	<2000	390,000	<25,000	<40	<40	100	89	--	<40	1,460	<40	<40	<40	<40	<40	--	ND	
MW-1	1/28/2002	460	<130	<250	3.0	<2.0	10	17	--	<2.0	2.24	300	170	46	3.0	5.0	--	ND	
MW-2	1/28/2002	<50	<130	<250	<2.0	<2.0	<2.0	<6.0	--	<2.0	0.11	51	5.0	12	<2.0	<2.0	--	ND	
MW-3	1/28/2002	<50	<130	<250	<2.0	<2.0	<2.0	<6.0	--	<2.0	0.26	440	69	47	<2.0	3.0	--	ND	
PQL		PQL Varies																	
MTCA Method A Cleanup Levels		1,000*	500**			5	1,000	700	1,000	5	20	160	5	5	NE	NE	0.2	15	0.1
MTCA Method B Cleanup Levels***		NE	NE	NE	0.8	640	800	1,600	0.48	24	160	21	0.54	80	160	0.029	NE	0.023	

Notes:

All values reported in micrograms per liter (µg/L)

-- = Not analyzed for constituent

< = Not detected at the listed laboratory detection limits

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A cleanup level

Bold indicates the detected concentration is below Ecology MTCA Method A cleanup levels

* TPH-Gasoline Cleanup Level without the presence of Benzene anywhere at the Site

** Cleanup level is for the combined concentration of diesel and oil

*** Method B cleanup level; most stringent value (cancer vs. non-cancer) is shown.

PCE = Tetrachloroethylene

TCE = Trichloroethylene

PCBs = Polychlorinated biphenyls

cPAHs = Carcinogenic polycyclic aromatic hydrocarbons

TEF = Toxicity Equivalency Factor; MTCA Table 708-2

MTBE = Methyl tert-butyl ether

PQL = Practical Quantification Limit (laboratory detection limit)

NE = Not established; no Cleanup Level has been established for this constituent.

EDC = 1,2-Dichloroethane

DCE = Dichloroethylene

ND = Not Detected

Table 5 - Summary of Soil Gas Analytical Results
Chinook Development (21-101)
Seattle, WA

Sample Number		SG-1	SG-2	SG-3	SG-4	Method B Sub-Slab Screening Level
Date Collected		8/2/2021	8/2/2021	8/2/2021	8/2/2021	
APH - Air Phase Hydrocarbons	EC5-8 Aliphatics	2,400	1,900	3,200 ve	2,100	90,000
	EC 9-12 Aliphatics	960	11,000 ve	550	580	4,700
	EC 9-10 Aromatics	<130	680	<130	<130	6,000
TO-15 - Volatile Organic Compounds	Benzene	13	27	37	20	10.7*
	Toluene	<100	<96	<98	<98	76,200
	Ethylbenzene	6.4	10	10	10	15,200
	m,p-Xylene	22	36	32	38	1,520
	o-Xylene	9.3	16	11	13	1,520
	Naphthalene	1.4	12	1.9	2.2	2.45*
	Vinyl Chloride	<1.4	<1.3	<1.3	<1.3	9.33*
	trans-1,2- Dichloroethylene	<2.1	<2	<2.1	<2.1	NL
	cis-1,2- Dichloroethylene	<2.1	<2	<2.1	<2.1	NL
	Trichloroethylene	1.3	<0.55	5.8	<0.56	12.3*
	Tetrachloroethylene	110	<35	83	<35	321*

Notes:

All values presented in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

< = Not detected above laboratory reporting limits

NL = Not Listed; no screening level has been established for this constituent.

* Cancer screening level (all other constituents listed do not have cancer values)

Red Bold indicates the detected concentration exceeds MTCA Method B indoor air cleanup levels or sub-slab screening levels

Bold indicates the detected concentration is below MTCA Method B indoor air cleanup levels or sub-slab screening levels

ve = The analyte response exceeded the valid instrument calibration range. The value reported is an estimate

APPENDIX A

Supporting Documents

Boring / Well Logs

Laboratory Datasheets

Terrestrial Ecological Evaluation Form

JOB NO. <u>ES-6717.02</u>	CLIENT <u>WALLS PROPERTY MANAGEMENT, LLC</u>		BORING NO. <u>B-1</u>
DATE <u>5/6/21</u>	LOGGED BY <u>TWS</u>	CHECKED BY	
DRILLING METHOD <u>Geoprobe</u>	SAMPLING METHOD <u>DISCRETE GRAB</u>	ELEV.	SHEET <u>1</u> of <u>1</u>
HAMMER WT.	DROP	DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		CONCRETE FLOOR SLAB		
						1		SANDY GRAVEL, LOOSE, DRY, NO ODOR, PID = 0.0 ppm		
						2		BROWN-GRY SANDY SILT, MEDIUM DENSE, NO GRAVEL, DRY, NO ODOR, PID = 0.0 ppm		
B-1: 3.0						3				
						4				
						5		BROWN SILT SAND WITH GRAVEL, LOOSE, DRY, NO ODOR, PID = 0.0 ppm		
						6				
B-1: 7.5						7				
						8		GRY SLD SAND, DENSE, NO ODOR, DRY, PID = 0.2 ppm		
						9				
						10		GRY SANDY SILT, NO GRAVEL, DRY, NO ODOR, PID = 0.0 ppm		
						11				
						12				
B-1: 13.5						13		BECOMING MOIST, NO ODOR, PID = 0.0 ppm		
						14				
B-1: 15.0						15				
B-1 (WATER)						16	D	GROUNDWATER SEEPAGE AT 15.5 FT.		
						17				
						18				
						19	BoH			
						20				

Boring terminated at 18.0 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 15.5 feet during drilling.

___" PVC standpipe installed to (bottom of boring) ___ feet. Lower ___ feet slotted. Well ID: _____

Boring backfilled with BENTONITE

JOB NO. <u>ES-6717.02</u>	CLIENT <u>Walls Property Management, LLC</u>		BORING NO. <u>B-2</u>
DATE <u>5/6/21</u>	LOGGED BY <u>TWS</u>	CHECKED BY	
DRILLING METHOD <u>Geoprobe</u>	SAMPLING METHOD <u>GRAB</u>	ELEV.	SHEET <u>1</u> of <u>1</u>
HAMMER WT.	DROP	DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		CONCRETE FLOOR SLAB		
B-2: 2.0						1		SILTY SAND WITH GRAVEL, LOOSE, DRY, NO ODO, PID = 0.0 ppm Some Asphalt Debris		
						2		BROWN-GREY SANDY SILT, NO GRAVEL, MED DENSE, DRY, NO ODO, PID = 0.2 ppm		
						3				
						4				
B-2: 6.0						5		GREY SANDY SILT, NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.0 ppm		
						6				
						7		GREY SANDY SILT, NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.0 ppm		
						8				
						9				
						10				
						11		GREY SANDY SILT NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.0 ppm		
B-2: 12.0						12				
						13		Becoming moist		
B-2: 14.0						14				
B-2 (WATER)						15	▽	GROUNDWATER SEEPAGE AT 15.0 FT.		
						16				
						17				
						18				
						19	BOH			
						20				

Boring terminated at 18.0 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 15.0 feet during drilling.

____" PVC standpipe installed to (bottom of boring) _____ feet. Lower _____ feet slotted. Well ID: _____

Boring backfilled with BENTONITE

JOB NO. <u>ES-6717.02</u>	CLIENT <u>WALKS PROPERTY MANAGEMENT, LLC</u>		BORING NO.
DATE <u>5/6/21</u>	LOGGED BY <u>TWS</u>	CHECKED BY	<u>B-3</u>
DRILLING METHOD <u>Geoprobe</u>	SAMPLING METHOD <u>GRAB</u>	ELEV.	SHEET <u>1</u> of <u>1</u>
HAMMER WT.	DROP	DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		CONCRETE FLOOR SLAB		
						1		SANDY GRAVEL WITH ASPHALT DEBRIS		
						2		BROWN SILTY SAND, LITTLE GRAVEL, MED. DENSE, DRY, NO ODOR, PID < 0.0 ppm		
						3				
B-3:4.0						4				
						5				
						6		GRY SILTY SAND, NO GRAVEL, DRY, DENSE, NO ODOR, PID < 0.2 ppm		
						7				
B-3:8.0						8				
						9		GRY SILTY SAND, NO GRAVEL, DRY, DENSE, NO ODOR, PID < 0.0 ppm		
						10				
B-3:11.0						11				
						12				
						13		Becoming moist, NO ODOR, PID < 0.0 ppm		
B-3:14.0						14				
						15		GROUNDWATER SEEPAGE AT 15.0 FT		
B-3(WATER)						16				
						17				
						18				
						19				
						20				

Boring terminated at 18.0 feet below existing grade.

(NO) Groundwater (table seepage) encountered at 15.0 feet during drilling.

____" PVC standpipe installed to (bottom of boring) _____ feet. Lower _____ feet slotted. Well ID: _____

Boring backfilled with BENTONITE

JOB NO. <u>ES-6717,02</u>		CLIENT <u>Walls Property Management, LLC</u>		BORING NO. <u>B-4</u>
DATE <u>5/7/21</u>		LOGGED BY <u>TWS</u>	CHECKED BY	
DRILLING METHOD <u>Geoprobe</u>		SAMPLING METHOD <u>GRAB</u>	ELEV.	SHEET <u>1</u> of <u>1</u>
HAMMER WT.		DROP	DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		CONCRETE FLOOR SLAB		
						1		SANDY GRAVEL Fill with FINE GRAIN ASPHALT pieces, PLO = 0.0 ppm		
						2		BROWN SANDY SILT, FEW GRAVEL, MED. DENSE, NO ODOM, PLO = 0.0 ppm		
B-4: 3.0						3				
						4				
						5		GREY SANDY SILT, FEW GRAVEL, DENSE, DRY, NO ODOM, PLO = 0.2 ppm		
B-4: 6.0						6				
						7				
						8		GREY SANDY SILT, DENSE, DRY, NO ODOM, PLO = 0.0 ppm		
B-4: 9.0						9				
						10				
						11				
B-4: 12.0						12		GREY SILT, SAND with GRAVEL, DRY, NO ODOM, PLO = 0.4 ppm		
						13		BECOMING MOIST		
						14				
B-4 (WATER)						15	▽	GROUND WATER SEEPAGE AT 15.0 FT.		
						16				
						17				
						18	BoH			
						19				
						20				

Boring terminated at 18.0 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 15.0 feet during drilling.

____" PVC standpipe installed to (bottom of boring) _____ feet. Lower _____ feet slotted. Well ID: _____

Boring backfilled with BENTONITE

JOB NO. <u>ES-6717.02</u>		CLIENT <u>WALLS PROPERTY MANAGEMENT, LLC</u>		BORING NO.	
DATE <u>5/7/21</u>		LOGGED BY <u>TWS</u>		CHECKED BY	
DRILLING METHOD <u>Geoprobe</u>		SAMPLING METHOD <u>GRAB</u>		ELEV.	
HAMMER WT.		DROP		DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		<u>Asphalt Parking Lot</u>		
						1		<u>SANDY GRAVEL Fill with small pieces of CRUSHED Asphalt, PID = 0.0 ppm</u>		
<u>B-5: 2.5</u>						2		<u>BROWN SANDY SILT with GRAVEL, MED. DENSE, DRY, NO ODO, PID = 0.0 ppm</u>		
						3				
						4				
<u>B-5: 5.5</u>						5		<u>GREY SILTY SAND, NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.0 ppm</u>		
						6				
						7				
<u>B-5: 9.0</u>						8				
						9		<u>GREY SANDY SILT, FEW GRAVEL, DENSE, DRY, PID = 0.2 ppm</u>		
						10				
						11				
						12				
<u>B-5: 13.0</u>						13		<u>GREY SANDY SILT, NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.0 ppm</u>		
						14		<u>Becoming moist</u>		
						15		<u>GROUNDWATER SEEPAGE AT 15.0 FT.</u>		
						16				
						17				
						18				
						19				
						20				

Boring terminated at 18 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 15.0 feet during drilling.

___" PVC standpipe installed to (bottom of boring) ___ feet. Lower ___ feet slotted. Well ID: _____

Boring backfilled with BENTONITE

JOB NO. <u>ES-6717-02</u>	CLIENT <u>WALLS Property Management, LLC</u>		BORING NO. <u>B-6</u>
DATE <u>5/7/21</u>	LOGGED BY <u>TWS</u>	CHECKED BY	
DRILLING METHOD <u>Geoprobe</u>	SAMPLING METHOD <u>GRA</u>	ELEV.	SHEET <u>1</u> of <u>1</u>
HAMMER WT.	DROP	DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		Asphalt Parking Lot		
						1		SANDY GRAVEL Fill with organics, Asphalt, PID = 0.0 ppm.		
						2				
						3				
B-6:4.0						4		BROWN SANDY SILT, NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.4 ppm		
						5				
						6				
						7		GREY SANDY SILT, FEW GRAVEL, DENSE, DRY, NO ODO, PID = 0.0 ppm.		
B-6:8.0						8				
						9				
						10				
						11				
B-6:12.0						12		GREY SANDY SILT, NO GRAVEL, DENSE, DRY, NO ODO, PID = 0.3 ppm.		
						13		Becoming moist		
B-6:14.0						14		PID = 0.0 ppm		
						15		GROUNDWATER SEEPAGE AT 15.0 FT		
B-6 (WATER)						16				
						17				
						18				
						19				
						20				

Boring terminated at 18.0 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 15.0 feet during drilling.

____" PVC standpipe installed to (bottom of boring) _____ feet. Lower _____ feet slotted. Well ID: _____

Boring backfilled with _____

JOB NO. <u>85-6717.02</u>	CLIENT <u>WALLS PROPERTY MANAGEMENT, LLC</u>		BORING NO. <u>B-7</u>
DATE <u>5/7/21</u>	LOGGED BY <u>TWS</u>	CHECKED BY	
DRILLING METHOD <u>Geo probe</u>	SAMPLING METHOD <u>Grab</u>	ELEV.	SHEET <u>1</u> of <u>1</u>
HAMMER WT.	DROP	DRILLING CONTR. <u>AEC</u>	

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		<u>Asphalt Parking Lot</u>		
						1		<u>SANDY GRAVEL fill, some Asphalt debris</u>		
						2		<u>PID = 0.0 ppm</u>		
						3		<u>BROWN SANDY SILT, NO GRAVEL, MED. DENSE</u>		
<u>B-7: 3.5</u>						4		<u>DRY, NO ODR, PID = 0.1 ppm</u>		
						5				
						6		<u>GREY SILTY SAND, FEW GRAVEL, DENSE,</u>		
<u>B-7: 6.5</u>						7		<u>DRY, NO ODR, PID = 0.0 ppm</u>		
						8				
<u>B-7: 9.5</u>						9				
						10				
						11		<u>GREY SILTY SAND, NO GRAVEL, DENSE,</u>		
<u>B-7: 12.5</u>						12		<u>DRY, NO ODR, PID = 0.0 ppm</u>		
						13		<u>Becoming moist</u>		
						14				
<u>B-7 (WATER)</u>						15	<u>▽</u>	<u>GROUNDWATER SEEPAGE AT 14.0 FT.</u>		
						16	<u>▽</u>			
						17				
						18	<u>BEH</u>			
						19				
						20				

Boring terminated at 17.0 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 14.0 feet during drilling.

____" PVC standpipe installed to (bottom of boring) _____ feet. Lower _____ feet slotted. Well ID: _____

Boring backfilled with BENTONITE

JOB NO. <u>ES-6717.02</u>		CLIENT <u>Walls Property Management, LLC</u>			BORING NO. <u>B-8</u>	
DATE <u>8/7/21</u>		LOGGED BY <u>TWS</u>		CHECKED BY _____		
DRILLING METHOD <u>Geoprobe</u>		SAMPLING METHOD <u>GRAB</u>		ELEV. _____		
HAMMER WT. _____		DROP _____		DRILLING CONTR. <u>AEC</u>		

sample number	sample type	moisture %	recovery inches	blows	N value	depth in feet	USCS code	SURFACE CONDITIONS	Lat. _____	Long. _____
						0		<u>Asphalt Parking Lot</u>		
						1		<u>SANDY GRAVEL Fill with ORGANICS + CRUSHED Asphalt Debris, PID = 0.1 ppm</u>		
						2		<u>BROWN SANDY SILT, FEW GRAVEL, MED DENSE, DRY, NO ODR, PID = 0.2 ppm</u>		
						3				
						4				
<u>B-8: 5.0</u>						5		<u>GREY SANDY SILT, NO GRAVEL, DENSE, DRY, NO ODR, PID = 0.3 ppm</u>		
						6				
						7				
<u>B-8: 8.0</u>						8		<u>GREY SILTY SAND, NO GRAVEL, DENSE, DRY, NO ODR, PID = 0.2 ppm</u>		
						9				
						10				
<u>B-8: 11.0</u>						11		<u>GREY SANDY SILT, FEW GRAVEL, DENSE, Becoming moist, NO ODR, PID = 0.1 ppm</u>		
						12				
						13				
<u>B-8: 14.0</u>						14		<u>GROUNDWATER SEEPAGE AT 14.0 FT.</u>		
<u>B-8 (WATER)</u>						15				
						16				
						17				
						18				
						19				
						20				

Boring terminated at 18.0 feet below existing grade.

(NO) Groundwater (table / seepage) encountered at 14.0 feet during drilling.

____" PVC standpipe installed to (bottom of boring) _____ feet. Lower _____ feet slotted. Well ID: _____

Boring backfilled with BENTONITE



Associated
Environmental
Group, LLC

Client: **AEG-CLIENTS**

Project: **21-101**

Address: **1446 NW 53rd Street, Seattle, WA**

WELL LOG

Well No. **MW-1**

Page: **1 of 1**

Drilling Start Date: **08/03/2021 10:45**
Drilling End Date: **08/03/2021 10:56**
Drilling Company: **Cascade**
Drilling Method: **Direct Push**
Drilling Equipment: **Track Mounted Geoprobe**
Driller: **Tim**
Logged By: **B. Dilba**

Boring Depth (ft): **15.0**
Boring Diameter (in): **3.00**
Sampling Method(s): **Direct Push**
DTW During Drilling (ft): **N/A**
DTW After Drilling (ft): **N/A**
Ground Surface Elev. (ft):
Location (Lat, Long):

Well Depth (ft): **15.0**
Well Diameter (in): **2.0**
Screen Slot (in): **0.010**
Riser Material: **Sch 40 PVC**
Screen Material: **PVC Prepack**
Seal Material(s): **Bent. Chips**
Filter Type: **Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete (0.5') Fill			0
5				DP	10:47			(5') Poorly graded SAND with silt (SP-SM); medium-coarse grained, trace fine-coarse gravel, some silt, dense, moist, light bluish-gray		MW1-5	5
10				DP	10:53					MW1-10	10
15								(15') Boring terminated		MW1-13	15
20											20

NOTES: Monitoring Well augured due to stiff/dense soils.



Associated
Environmental
Group, LLC

Client: **AEG-CLIENTS**

Project: **21-101**

Address: **1446 NW 53rd Street, Seattle, WA**

WELL LOG

Well No. **MW-2**

Page: **1 of 1**

Drilling Start Date: **08/03/2021 10:57**

Drilling End Date: **08/03/2021 11:20**

Drilling Company: **Cascade**

Drilling Method: **Direct Push**

Drilling Equipment: **Track Mounted Geoprobe**

Driller: **Tim**

Logged By: **B. Dilba**

Boring Depth (ft): **15.0**

Boring Diameter (in): **3.00**

Sampling Method(s): **Direct Push**

DTW During Drilling (ft): **N/A**

DTW After Drilling (ft): **N/A**

Ground Surface Elev. (ft):

Location (Lat, Long):

Well Depth (ft): **15.0**

Well Diameter (in): **2.0**

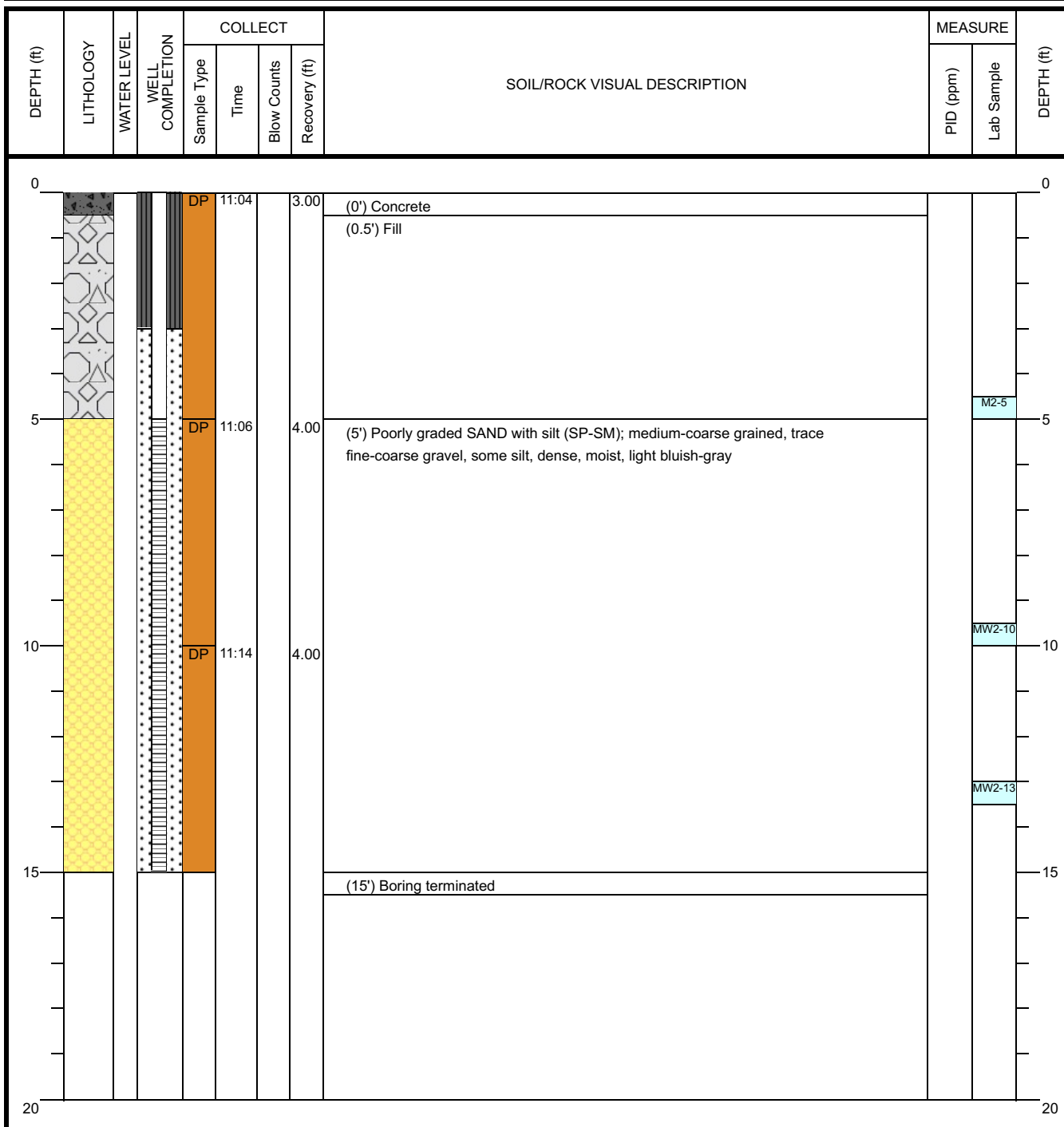
Screen Slot (in): **0.010**

Riser Material: **Sch 40 PVC**

Screen Material: **PVC Prepack**

Seal Material(s): **Bent. Chips**

Filter Type: **Sand**



NOTES: Monitoring Well augured due to stiff/dense soils.



Associated
Environmental
Group, LLC

Client: **AEG-CLIENTS**

Project: **21-101**

Address: **1446 NW 53rd Street, Seattle, WA**

WELL LOG

Well No. **MW-3**

Page: **1 of 1**

Drilling Start Date: **08/03/2021 11:23**
Drilling End Date: **08/03/2021 11:50**
Drilling Company: **Cascade**
Drilling Method: **Direct Push**
Drilling Equipment: **Track Mounted Geoprobe**
Driller: **Tim**
Logged By: **B. Dilba**

Boring Depth (ft): **15.0**
Boring Diameter (in): **3.00**
Sampling Method(s): **Direct Push**
DTW During Drilling (ft): **N/A**
DTW After Drilling (ft): **N/A**
Ground Surface Elev. (ft):
Location (Lat, Long):

Well Depth (ft): **15.0**
Well Diameter (in): **2.0**
Screen Slot (in): **0.010**
Riser Material: **Sch 40 PVC**
Screen Material: **PVC Prepack**
Seal Material(s): **Bent. Chips**
Filter Type: **Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete (0.5') Fill			0
5				DP	11:28						
				DP	11:42			(5') Poorly graded SAND with silt (SP-SM); medium-coarse grained, trace fine-coarse gravel, some silt, dense, moist, light bluish-gray			5
10				DP	11:42						10
15								(15') Boring terminated			15
20											20

NOTES: Monitoring Well augured due to stiff/dense soils.



Associated
Environmental
Group, LLC

Client: **AEG-CLIENTS**

Project: **21-101**

Address: **1446 NW 53rd Street, Seattle, WA**

WELL LOG

Well No. **MW-4**

Page: **1 of 1**

Drilling Start Date: **08/03/2021 13:15**

Drilling End Date: **08/03/2021 13:34**

Drilling Company: **Cascade**

Drilling Method: **Direct Push**

Drilling Equipment: **Track Mounted Geoprobe**

Driller: **Tim**

Logged By: **B. Dilba**

Boring Depth (ft): **15.0**

Boring Diameter (in): **3.00**

Sampling Method(s): **Direct Push**

DTW During Drilling (ft): **13.0**

DTW After Drilling (ft): **N/A**

Ground Surface Elev. (ft):

Location (Lat, Long):

Well Depth (ft): **15.0**

Well Diameter (in): **2.0**

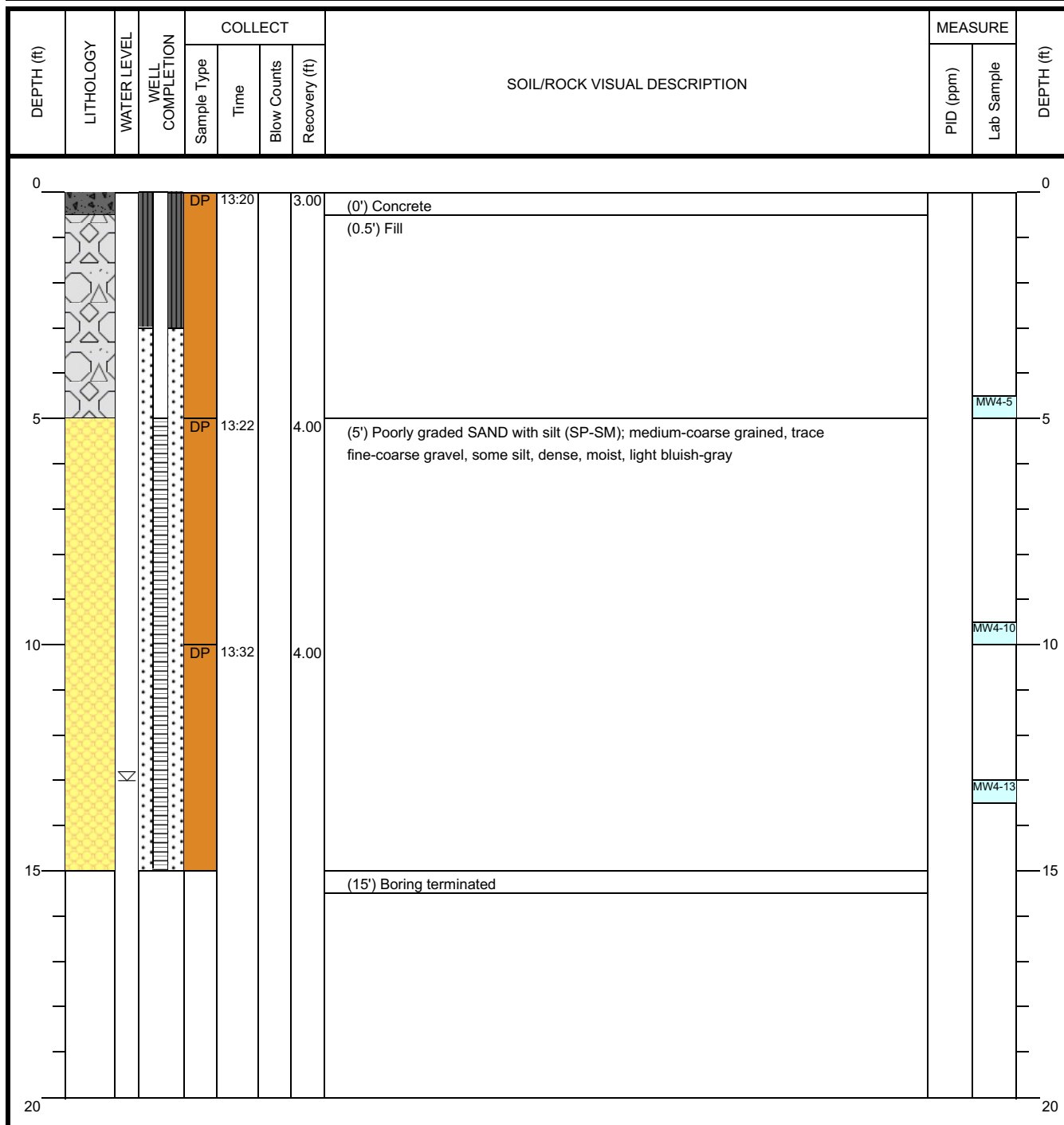
Screen Slot (in): **0.010**

Riser Material: **Sch 40 PVC**

Screen Material: **PVC Prepack**

Seal Material(s): **Bent. Chips**

Filter Type: **Sand**



NOTES: Monitoring Well augured due to stiff/dense soils.



Associated
Environmental
Group, LLC

Client: **AEG-CLIENTS**

Project: **21-101**

Address: **1446 NW 53rd Street, Seattle, WA**

WELL LOG

Well No. **MW-5**

Page: **1 of 1**

Drilling Start Date: **08/04/2021 08:11**
Drilling End Date: **08/04/2021 08:44**
Drilling Company: **Cascade**
Drilling Method: **Direct Push**
Drilling Equipment: **Track Mounted Geoprobe**
Driller: **Tim**
Logged By: **B. Dilba**

Boring Depth (ft): **15.0**
Boring Diameter (in): **3.00**
Sampling Method(s): **Direct Push**
DTW During Drilling (ft): **N/A**
DTW After Drilling (ft): **N/A**
Ground Surface Elev. (ft):
Location (Lat, Long):

Well Depth (ft): **15.0**
Well Diameter (in): **2.0**
Screen Slot (in): **0.010**
Riser Material: **Sch 40 PVC**
Screen Material: **PVC Prepack**
Seal Material(s): **Bent. Chips**
Filter Type: **Sand**

DEPTH (ft)	LITHOLOGY	WATER LEVEL	WELL COMPLETION	COLLECT				SOIL/ROCK VISUAL DESCRIPTION	MEASURE		DEPTH (ft)
				Sample Type	Time	Blow Counts	Recovery (ft)		PID (ppm)	Lab Sample	
0								(0') Concrete			0
								(0.5') SILT with sand (ML); trace fine gravel, trace fine sand, medium plasticity, stiff, moist, dark reddish-brown			
5								(5') Poorly graded SAND with silt (SP-SM); medium-coarse grained, trace fine-coarse gravel, some silt, dense, moist, light bluish-gray		MW5-5	5
10								(13') Lean CLAY with sand (CL); trace fine sand, medium plasticity, very stiff, moist, light bluish-gray		MW5-10	10
15								(15') Boring terminated		MW5-13	15
20											20

NOTES: Monitoring Well augured due to stiff/dense soils.



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

May 17, 2021

Ted Sykes
Earth Solutions NW, LLC
15365 NE 90th Street, Suite 100
Redmond, WA 98052

Re: Analytical Data for Project ES-6717.02
Laboratory Reference No. 2105-049

Dear Ted:

Enclosed are the analytical results and associated quality control data for samples submitted on May 6, 2021.

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", followed by a long horizontal flourish.

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: May 17, 2021
Samples Submitted: May 6, 2021
Laboratory Reference: 2105-049
Project: ES-6717.02

Case Narrative

Samples were collected on May 6, 2021 and received by the laboratory on May 6, 2021. 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: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:3.0					
Laboratory ID:	05-049-01					
Gasoline	ND	5.9	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	116	66-129				
Client ID:	B-1:7.5					
Laboratory ID:	05-049-02					
Gasoline	ND	4.5	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	66-129				
Client ID:	B-1:13.5					
Laboratory ID:	05-049-03					
Gasoline	ND	4.9	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	66-129				
Client ID:	B-1:15.0					
Laboratory ID:	05-049-04					
Gasoline	ND	5.4	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	105	66-129				
Client ID:	B-2:2.0					
Laboratory ID:	05-049-06					
Gasoline	ND	5.2	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	108	66-129				
Client ID:	B-2:6.0					
Laboratory ID:	05-049-07					
Gasoline	ND	5.5	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	107	66-129				
Client ID:	B-2:12.0					
Laboratory ID:	05-049-08					
Gasoline	ND	5.2	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	66-129				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:14.0					
Laboratory ID:	05-049-09					
Gasoline	ND	4.8	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	101	66-129				
Client ID:	B-3:4.0					
Laboratory ID:	05-049-11					
Gasoline	ND	5.7	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	106	66-129				
Client ID:	B-3:8.0					
Laboratory ID:	05-049-12					
Gasoline	ND	5.1	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	98	66-129				
Client ID:	B-3:11.0					
Laboratory ID:	05-049-13					
Gasoline	ND	5.6	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	108	66-129				
Client ID:	B-3:14.0					
Laboratory ID:	05-049-14					
Gasoline	ND	4.6	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	102	66-129				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**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:	MB0507S1					
Gasoline	ND	5.0	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	66-129				
Laboratory ID:	MB0507S2					
Gasoline	ND	5.0	NWTPH-Gx	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	104	66-129				

Analyte	Result				Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-063-01										
	ORIG		DUP								
Gasoline	ND	ND	NA	NA	NA		NA		NA	30	
Surrogate:											
Fluorobenzene						99	104	66-129			
Laboratory ID:	05-063-02										
	ORIG		DUP								
Gasoline	ND	ND	NA	NA	NA		NA		NA	30	
Surrogate:											
Fluorobenzene						103	105	66-129			



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1 (WATER)					
Laboratory ID:	05-049-05					
Gasoline	ND	100	NWTPH-Gx	5-10-21	5-10-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	80	66-117				
Client ID:	B-2 (WATER)					
Laboratory ID:	05-049-10					
Gasoline	ND	100	NWTPH-Gx	5-10-21	5-10-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	83	66-117				
Client ID:	B-3 (WATER)					
Laboratory ID:	05-049-15					
Gasoline	ND	100	NWTPH-Gx	5-10-21	5-10-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	76	66-117				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**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:	MB0510W1					
Gasoline	ND	100	NWTPH-Gx	5-10-21	5-10-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	79	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-049-05							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				80	83	66-117		



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**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:	B-1:3.0					
Laboratory ID:	05-049-01					
Diesel Range Organics	ND	32	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	63	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	92	50-150				

Client ID:	B-1:7.5					
Laboratory ID:	05-049-02					
Diesel Range Organics	ND	27	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	86	50-150				

Client ID:	B-1:13.5					
Laboratory ID:	05-049-03					
Diesel Range Organics	ND	29	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	59	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	80	50-150				

Client ID:	B-1:15.0					
Laboratory ID:	05-049-04					
Diesel Range Organics	ND	30	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	60	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	94	50-150				

Client ID:	B-2:2.0					
Laboratory ID:	05-049-06					
Diesel Range Organics	ND	30	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	59	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	82	50-150				

Client ID:	B-2:6.0					
Laboratory ID:	05-049-07					
Diesel Range Organics	ND	29	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	58	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	74	50-150				



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: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**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:	B-2:12.0					
Laboratory ID:	05-049-08					
Diesel Fuel #2	140	29	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	57	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	91	50-150				

Client ID:	B-2:14.0					
Laboratory ID:	05-049-09					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	89	50-150				

Client ID:	B-3:4.0					
Laboratory ID:	05-049-11					
Diesel Range Organics	ND	30	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	60	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	83	50-150				

Client ID:	B-3:8.0					
Laboratory ID:	05-049-12					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	95	50-150				

Client ID:	B-3:11.0					
Laboratory ID:	05-049-13					
Diesel Range Organics	ND	29	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	57	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	82	50-150				

Client ID:	B-3:14.0					
Laboratory ID:	05-049-14					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-14-21	
Lube Oil Range Organics	ND	57	NWTPH-Dx	5-11-21	5-14-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	90	50-150				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**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:	MB0511S2					
Diesel Range Organics	ND	25	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-049-01									
	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						92	74	50-150		
Laboratory ID:	05-049-14									
	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						90	85	50-150		



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 Project: ES-6717.02

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

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1 (WATER)					
Laboratory ID:	05-049-05					
Diesel Range Organics	610	220	NWTPH-Dx	5-10-21	5-11-21	
Lube Oil Range Organics	350	220	NWTPH-Dx	5-10-21	5-11-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				
Client ID:	B-2 (WATER)					
Laboratory ID:	05-049-10					
Diesel Range Organics	370	240	NWTPH-Dx	5-10-21	5-11-21	
Lube Oil Range Organics	ND	240	NWTPH-Dx	5-10-21	5-11-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Client ID:	B-3 (WATER)					
Laboratory ID:	05-049-15					
Diesel Range Organics	ND	210	NWTPH-Dx	5-10-21	5-11-21	
Lube Oil Range Organics	ND	210	NWTPH-Dx	5-10-21	5-11-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				



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 Project: ES-6717.02

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

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Diesel Range Organics	ND	200	NWTPH-Dx	5-10-21	5-11-21	
Lube Oil Range Organics	ND	200	NWTPH-Dx	5-10-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	106	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-047-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				98	93	50-150		



Date of Report: May 17, 2021
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 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:3.0					
Laboratory ID:	05-049-01					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.015	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0013	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0066	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:3.0					
Laboratory ID:	05-049-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	112	74-131				
Toluene-d8	95	78-128				
4-Bromofluorobenzene	108	71-130				



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: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:7.5					
Laboratory ID:	05-049-02					
Dichlorodifluoromethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.012	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0054	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:7.5					
Laboratory ID:	05-049-02					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0016	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0041	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	113	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	106	71-130				



Date of Report: May 17, 2021
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:13.5					
Laboratory ID:	05-049-03					
Dichlorodifluoromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	0.00094	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.013	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0059	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	



Date of Report: May 17, 2021
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 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:13.5					
Laboratory ID:	05-049-03					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0018	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>71-130</i>				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:15.0					
Laboratory ID:	05-049-04					
Dichlorodifluoromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.013	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	0.0013	0.0011	EPA 8260D	5-10-21	5-10-21	Y
Methylene Chloride	ND	0.0057	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1:15.0					
Laboratory ID:	05-049-04					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	0.0014	0.00087	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0043	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	113	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	106	71-130				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:2.0					
Laboratory ID:	05-049-06					
Dichlorodifluoromethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.013	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0056	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	



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 Project: ES-6717.02

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:2.0					
Laboratory ID:	05-049-06					
1,1,2-Trichloroethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00085	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



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: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:6.0					
Laboratory ID:	05-049-07					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.016	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0069	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0014	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:6.0					
Laboratory ID:	05-049-07					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0021	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0052	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	116	74-131				
Toluene-d8	95	78-128				
4-Bromofluorobenzene	104	71-130				



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

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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:12.0					
Laboratory ID:	05-049-08					
Dichlorodifluoromethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.011	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.00099	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.00099	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	



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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:12.0					
Laboratory ID:	05-049-08					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0015	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



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

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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:14.0					
Laboratory ID:	05-049-09					
Dichlorodifluoromethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.0077	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0069	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2:14.0					
Laboratory ID:	05-049-09					
1,1,2-Trichloroethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.0043	0.00077	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00077	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>71-130</i>				



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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:4.0					
Laboratory ID:	05-049-11					
Dichlorodifluoromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.013	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0012	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0058	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0058	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:4.0					
Laboratory ID:	05-049-11					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0018	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-130</i>				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:8.0					
Laboratory ID:	05-049-12					
Dichlorodifluoromethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.011	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.00098	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.00098	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Chloroform	0.00091	0.00075	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:8.0					
Laboratory ID:	05-049-12					
1,1,2-Trichloroethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0015	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0038	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00075	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-130</i>				



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: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:11.0					
Laboratory ID:	05-049-13					
Dichlorodifluoromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Acetone	0.016	0.013	EPA 8260D	5-10-21	5-10-21	Y
Iodomethane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0058	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:11.0					
Laboratory ID:	05-049-13					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0044	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260D	5-10-21	5-10-21	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	112	74-131				
Toluene-d8	97	78-128				
4-Bromofluorobenzene	108	71-130				



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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:14.0					
Laboratory ID:	05-049-14					
Dichlorodifluoromethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.012	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0055	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3:14.0					
Laboratory ID:	05-049-14					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0042	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260D	5-10-21	5-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-130</i>				



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

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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chloromethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromomethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Chloroethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Acetone	ND	0.015	EPA 8260D	5-10-21	5-10-21	
Iodomethane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Carbon Disulfide	ND	0.0013	EPA 8260D	5-10-21	5-10-21	
Methylene Chloride	ND	0.0066	EPA 8260D	5-10-21	5-10-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	5-10-21	5-10-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Butanone	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chloroform	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Benzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	5-10-21	5-10-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Toluene	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Hexanone	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-10-21	5-10-21	
o-Xylene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Styrene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromoform	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
Naphthalene	ND	0.0050	EPA 8260D	5-10-21	5-10-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-10-21	5-10-21	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	110	74-131				
Toluene-d8	95	78-128				
4-Bromofluorobenzene	102	71-130				



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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.010	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0090	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	74-131				
Toluene-d8	103	78-128				
4-Bromofluorobenzene	99	71-130				



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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0510S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0402	0.0396	0.0500	0.0500	80	79	71-131	2	19	
Benzene	0.0497	0.0503	0.0500	0.0500	99	101	73-124	1	18	
Trichloroethene	0.0559	0.0551	0.0500	0.0500	112	110	79-130	1	18	
Toluene	0.0475	0.0475	0.0500	0.0500	95	95	76-123	0	18	
Chlorobenzene	0.0456	0.0461	0.0500	0.0500	91	92	78-122	1	18	
Surrogate:										
Dibromofluoromethane					96	94	74-131			
Toluene-d8					95	95	78-128			
4-Bromofluorobenzene					103	105	71-130			
Laboratory ID:	SB0511S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0519	0.0505	0.0500	0.0500	104	101	71-131	3	19	
Benzene	0.0521	0.0503	0.0500	0.0500	104	101	73-124	4	18	
Trichloroethene	0.0562	0.0546	0.0500	0.0500	112	109	79-130	3	18	
Toluene	0.0532	0.0511	0.0500	0.0500	106	102	76-123	4	18	
Chlorobenzene	0.0534	0.0518	0.0500	0.0500	107	104	78-122	3	18	
Surrogate:										
Dibromofluoromethane					101	99	74-131			
Toluene-d8					99	99	78-128			
4-Bromofluorobenzene					103	106	71-130			



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1 (WATER)					
Laboratory ID:	05-049-05					
Dichlorodifluoromethane	ND	0.27	EPA 8260D	5-7-21	5-7-21	
Chloromethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Vinyl Chloride	0.27	0.20	EPA 8260D	5-7-21	5-7-21	
Bromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Acetone	16	5.0	EPA 8260D	5-7-21	5-7-21	
Iodomethane	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-7-21	5-7-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
(cis) 1,2-Dichloroethene	0.80	0.20	EPA 8260D	5-7-21	5-7-21	
2-Butanone	ND	5.0	EPA 8260D	5-7-21	5-7-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroform	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Benzene	0.47	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Trichloroethene	0.89	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Dibromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Toluene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-1 (WATER)					
Laboratory ID:	05-049-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Tetrachloroethene	1.1	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Hexanone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-7-21	5-7-21	
o-Xylene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Styrene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromoform	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Naphthalene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B-2 (WATER)						
Laboratory ID: 05-049-10						
Dichlorodifluoromethane	ND	0.27	EPA 8260D	5-7-21	5-7-21	
Chloromethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Acetone	17	5.0	EPA 8260D	5-7-21	5-7-21	
Iodomethane	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-7-21	5-7-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Butanone	ND	5.0	EPA 8260D	5-7-21	5-7-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroform	0.41	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Benzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Trichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Dibromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Toluene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-2 (WATER)					
Laboratory ID:	05-049-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Tetrachloroethene	0.49	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Hexanone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-7-21	5-7-21	
o-Xylene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Styrene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromoform	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Naphthalene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	106	75-127				
Toluene-d8	101	80-127				
4-Bromofluorobenzene	102	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3 (WATER)					
Laboratory ID:	05-049-15					
Dichlorodifluoromethane	ND	0.27	EPA 8260D	5-7-21	5-7-21	
Chloromethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Acetone	ND	5.0	EPA 8260D	5-7-21	5-7-21	
Iodomethane	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-7-21	5-7-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Butanone	ND	5.0	EPA 8260D	5-7-21	5-7-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroform	3.0	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Benzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Trichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Dibromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Toluene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-3 (WATER)					
Laboratory ID:	05-049-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Tetrachloroethene	4.2	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Hexanone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-7-21	5-7-21	
o-Xylene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Styrene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromoform	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Naphthalene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	106	75-127				
Toluene-d8	100	80-127				
4-Bromofluorobenzene	99	78-125				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W1					
Dichlorodifluoromethane	ND	0.27	EPA 8260D	5-7-21	5-7-21	
Chloromethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroethane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Acetone	ND	5.0	EPA 8260D	5-7-21	5-7-21	
Iodomethane	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-7-21	5-7-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Butanone	ND	5.0	EPA 8260D	5-7-21	5-7-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chloroform	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Benzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Trichloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Dibromomethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Toluene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-7-21	5-7-21	



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

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Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0507W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Tetrachloroethene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Hexanone	ND	2.0	EPA 8260D	5-7-21	5-7-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-7-21	5-7-21	
o-Xylene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Styrene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromoform	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Bromobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
Naphthalene	ND	1.0	EPA 8260D	5-7-21	5-7-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-7-21	5-7-21	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	103	75-127				
Toluene-d8	101	80-127				
4-Bromofluorobenzene	102	78-125				



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: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB0507W1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	11.1	11.6	10.0	10.0	111	116	78-124	4		19	
Benzene	10.7	11.0	10.0	10.0	107	110	80-119	3		16	
Trichloroethene	11.2	11.5	10.0	10.0	112	115	80-121	3		18	
Toluene	10.7	11.0	10.0	10.0	107	110	80-117	3		18	
Chlorobenzene	9.95	10.2	10.0	10.0	100	102	80-117	2		17	
Surrogate:											
Dibromofluoromethane					103	105	75-127				
Toluene-d8					101	101	80-127				
4-Bromofluorobenzene					103	103	78-125				



Date of Report: May 17, 2021
 Samples Submitted: May 6, 2021
 Laboratory Reference: 2105-049
 Project: ES-6717.02

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
B-1:3.0	05-049-01	21	5-10-21
B-1:7.5	05-049-02	8	5-10-21
B-1:13.5	05-049-03	15	5-10-21
B-1:15.0	05-049-04	17	5-10-21
B-2:2.0	05-049-06	16	5-10-21
B-2:6.0	05-049-07	13	5-10-21
B-2:12.0	05-049-08	12	5-10-21
B-2:14.0	05-049-09	11	5-10-21
B-3:4.0	05-049-11	16	5-10-21
B-3:8.0	05-049-12	10	5-10-21
B-3:11.0	05-049-13	13	5-10-21
B-3:14.0	05-049-14	11	5-10-21





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 methods 8260 & 8270, 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



Chain of Custody

Company: EARTH SOLUTIONS NW
Project Number: ES-6717.02
Project Name: 53RD APARTMENTS PROPERTY
Project Manager: TED SYKES
Sampled by: TED SYKES

**Turnaround Request
(in working days)**

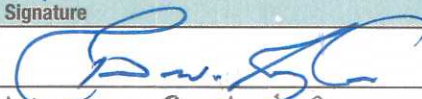
(Select One)

- ☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Number of Containers

Laboratory Number: **05-049**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWTPH	NWTPH	NWTPH	NWTPH	Volatiles	Halogen	EDB	Semivolatile (with low PAHs)	PAHs	PCBs	Organic	Organic	Chlorine	Total R	Total M	TCLP	HEM (c						% Moist
1	B-1: 3.0	5/6/21	1021	Soil	5			X	X	X																		X
2	B-1: 7.5		1032	Soil	5			X	X	X																		X
3	B-1: 13.5		1041	Soil	5			X	X	X																		X
4	B-1: 15.0		1051	Soil	5			X	X	X																		X
5	B-1 B-1 (WATER)		1135	WATER	6			X	X	X																		X
6	B-2: 2.0		1245	Soil	5			X	X	X																		X
7	B-2: 6.0		1250	Soil	5			X	X	X																		X
8	B-2: 12.0		1257	Soil	5			X	X	X																		X
9	B-2: 14.0		1300	Soil	5			X	X	X																		X
10	B-2 (WATER)		1340	WATER	6			X	X	X																		X

Signature	Company	Date	Time	Comments/Special Instructions
	ESNW	5/6/21		
	OSE	5/6/21	1605	
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) ☐		



Company: EARTH SOLUTIONS NW
Project Number: ES-6717.02
Project Name: 53RD APARTMENTS PROPERTY
Project Manager: TED SYKES
Sampled by: TED SYKES

Page 2 of 2

Environmental Inc. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www onsite-env.com																										
Company: EARTH SOLUTIONS NW		Turnaround Request (in working days)		Laboratory Number: 05-049																						
Project Number: ES-6717.02		(Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days) ☐ _____ (other)																								
Project Name: 53RD APARTMENTS PROPERTY		Number of Containers		NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A						% Moisture
Project Manager: Ted Sykes																										
Sampled by: Ted Sykes																										
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix																						
11	B-3: 4.0	5/6/21	1430	Soil	5		X	X	X																	
12	B-3: 8.0	}	1435	Soil	5		X	X	X																	
13	B-3: 11.0		1440	Soil	5		X	X	X																	
14	B-3: 14.0		1447	Soil	5		X	X	X																	
15	B-3 (WATER)	↓	1505	Water	6		X	X	X																	
Signature 		Company ESNW		Date 5/6/21	Time 1100	Comments/Special Instructions																				
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

May 19, 2021

Ted Sykes
Earth Solutions NW, LLC
15365 NE 90th Street, Suite 100
Redmond, WA 98052

Re: Analytical Data for Project ES-6717.02
Laboratory Reference No. 2105-073

Dear Ted:

Enclosed are the analytical results and associated quality control data for samples submitted on May 7, 2021.

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: May 19, 2021
Samples Submitted: May 7, 2021
Laboratory Reference: 2105-073
Project: ES-6717.02

Case Narrative

Samples were collected on May 7, 2021 and received by the laboratory on May 7, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

NWTPH-Gx (water) Analysis

The chromatogram for sample B-8 (WATER) is not similar to a typical gas.

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: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:3.0					
Laboratory ID:	05-073-01					
Gasoline	ND	6.0	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	66-129				
Client ID:	B-4:6.0					
Laboratory ID:	05-073-02					
Gasoline	ND	4.8	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	66-129				
Client ID:	B-4:9.0					
Laboratory ID:	05-073-03					
Gasoline	ND	4.3	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-129				
Client ID:	B-4:12.0					
Laboratory ID:	05-073-04					
Gasoline	ND	5.0	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	96	66-129				
Client ID:	B-5:2.5					
Laboratory ID:	05-073-06					
Gasoline	ND	8.1	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	114	66-129				
Client ID:	B-5:5.5					
Laboratory ID:	05-073-07					
Gasoline	ND	5.5	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	99	66-129				
Client ID:	B-5:9.0					
Laboratory ID:	05-073-08					
Gasoline	ND	4.9	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	100	66-129				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:13.0					
Laboratory ID:	05-073-09					
Gasoline	ND	4.7	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	116	66-129				
Client ID:	B-6:4.0					
Laboratory ID:	05-073-11					
Gasoline	ND	6.0	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	107	66-129				
Client ID:	B-6:8.0					
Laboratory ID:	05-073-12					
Gasoline	ND	4.6	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	106	66-129				
Client ID:	B-6:12.0					
Laboratory ID:	05-073-13					
Gasoline	ND	4.2	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	105	66-129				
Client ID:	B-6:14.0					
Laboratory ID:	05-073-14					
Gasoline	ND	4.4	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	105	66-129				
Client ID:	B-7:3.5					
Laboratory ID:	05-073-16					
Gasoline	ND	7.2	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	127	66-129				
Client ID:	B-7:6.5					
Laboratory ID:	05-073-17					
Gasoline	ND	4.7	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	105	66-129				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:9.5					
Laboratory ID:	05-073-18					
Gasoline	ND	4.8	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	102	66-129				
Client ID:	B-7:12.5					
Laboratory ID:	05-073-19					
Gasoline	ND	4.8	NWTPH-Gx	5-12-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	111	66-129				
Client ID:	B-8:5.0					
Laboratory ID:	05-073-21					
Gasoline	ND	4.7	NWTPH-Gx	5-12-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	107	66-129				
Client ID:	B-8:8.0					
Laboratory ID:	05-073-22					
Gasoline	ND	2.8	NWTPH-Gx	5-12-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	100	66-129				
Client ID:	B-8:11.0					
Laboratory ID:	05-073-23					
Gasoline	ND	5.3	NWTPH-Gx	5-12-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	66-129				
Client ID:	B-8:14.0					
Laboratory ID:	05-073-24					
Gasoline	ND	5.1	NWTPH-Gx	5-12-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	108	66-129				



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**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:	MB0512S4					
Gasoline	ND	5.0	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	98	66-129				
Laboratory ID:	MB0512S5					
Gasoline	ND	5.0	NWTPH-Gx	5-12-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	95	66-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-103-04							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				97	98	66-129		
Laboratory ID:	05-103-05							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				103	103	66-129		



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GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4 (WATER)					
Laboratory ID:	05-073-05					
Gasoline	ND	100	NWTPH-Gx	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	66-117				
Client ID:	B-5 (WATER)					
Laboratory ID:	05-073-10					
Gasoline	ND	100	NWTPH-Gx	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	88	66-117				
Client ID:	B-6 (WATER)					
Laboratory ID:	05-073-15					
Gasoline	ND	100	NWTPH-Gx	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	76	66-117				
Client ID:	B-7 (WATER)					
Laboratory ID:	05-073-20					
Gasoline	ND	100	NWTPH-Gx	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	66-117				
Client ID:	B-8 (WATER)					
Laboratory ID:	05-073-25					
Gasoline	170	100	NWTPH-Gx	5-11-21	5-11-21	T
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	78	66-117				



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**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:	MB0511W1					
Gasoline	ND	100	NWTPH-Gx	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-073-05							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				91	81	66-117		



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**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:	B-4:3.0					
Laboratory ID:	05-073-01					
Diesel Range Organics	ND	30	NWTPH-Dx	5-11-21	5-12-21	
Lube Oil Range Organics	ND	59	NWTPH-Dx	5-11-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	99	50-150				

Client ID:	B-4:6.0					
Laboratory ID:	05-073-02					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-12-21	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-11-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	90	50-150				

Client ID:	B-4:9.0					
Laboratory ID:	05-073-03					
Diesel Range Organics	ND	27	NWTPH-Dx	5-11-21	5-12-21	
Lube Oil Range Organics	ND	54	NWTPH-Dx	5-11-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	97	50-150				

Client ID:	B-4:12.0					
Laboratory ID:	05-073-04					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-12-21	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-11-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	95	50-150				

Client ID:	B-5:2.5					
Laboratory ID:	05-073-06					
Diesel Range Organics	ND	35	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	70	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	72	50-150				

Client ID:	B-5:5.5					
Laboratory ID:	05-073-07					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	91	50-150				



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**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:	B-5:9.0					
Laboratory ID:	05-073-08					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	88	50-150				

Client ID:	B-5:13.0					
Laboratory ID:	05-073-09					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	84	50-150				

Client ID:	B-6:4.0					
Laboratory ID:	05-073-11					
Diesel Range Organics	ND	31	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	61	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	92	50-150				

Client ID:	B-6:8.0					
Laboratory ID:	05-073-12					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	104	50-150				

Client ID:	B-6:12.0					
Laboratory ID:	05-073-13					
Diesel Range Organics	ND	29	NWTPH-Dx	5-11-21	5-17-21	
Lube Oil Range Organics	ND	57	NWTPH-Dx	5-11-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	78	50-150				

Client ID:	B-6:14.0					
Laboratory ID:	05-073-14					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	88	50-150				



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**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:	B-7:3.5					
Laboratory ID:	05-073-16					
Diesel Range Organics	ND	35	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	69	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	B-7:6.5					
Laboratory ID:	05-073-17					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	B-7:9.5					
Laboratory ID:	05-073-18					
Diesel Range Organics	ND	27	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	55	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	83	50-150				

Client ID:	B-7:12.5					
Laboratory ID:	05-073-19					
Diesel Range Organics	ND	29	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	57	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	88	50-150				

Client ID:	B-8:5.0					
Laboratory ID:	05-073-21					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	91	50-150				

Client ID:	B-8:8.0					
Laboratory ID:	05-073-22					
Diesel Range Organics	ND	27	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	54	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o-Terphenyl</i>	103	50-150				



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**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:	B-8:11.0					
Laboratory ID:	05-073-23					
Diesel Range Organics	ND	28	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	56	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Client ID:	B-8:14.0					
Laboratory ID:	05-073-24					
Diesel Range Organics	ND	29	NWTPH-Dx	5-11-21	5-13-21	
Lube Oil Range Organics	ND	58	NWTPH-Dx	5-11-21	5-13-21	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	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:	MB0511S3					
Diesel Range Organics	ND	25	NWTPH-Dx	5-11-21	5-12-21	
Lube Oil Range Organics	ND	50	NWTPH-Dx	5-11-21	5-12-21	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	93	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-073-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				99	71	50-150		
Laboratory ID:	05-073-18							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				83	98	50-150		



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

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4 (WATER)					
Laboratory ID:	05-073-05					
Diesel Range Organics	ND	210	NWTPH-Dx	5-17-21	5-17-21	
Lube Oil Range Organics	250	210	NWTPH-Dx	5-17-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	91	50-150				

Client ID:	B-5 (WATER)					
Laboratory ID:	05-073-10					
Diesel Range Organics	ND	240	NWTPH-Dx	5-17-21	5-17-21	
Lube Oil Range Organics	420	240	NWTPH-Dx	5-17-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	106	50-150				

Client ID:	B-6 (WATER)					
Laboratory ID:	05-073-15					
Diesel Range Organics	ND	240	NWTPH-Dx	5-17-21	5-17-21	
Lube Oil Range Organics	610	240	NWTPH-Dx	5-17-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	104	50-150				

Client ID:	B-7 (WATER)					
Laboratory ID:	05-073-20					
Diesel Range Organics	ND	150	NWTPH-Dx	5-17-21	5-17-21	
Lube Oil Range Organics	320	230	NWTPH-Dx	5-17-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	101	50-150				

Client ID:	B-8 (WATER)					
Laboratory ID:	05-073-25					
Diesel Range Organics	320	240	NWTPH-Dx	5-17-21	5-17-21	
Lube Oil Range Organics	320	240	NWTPH-Dx	5-17-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	113	50-150				



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

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0517W1					
Diesel Range Organics	ND	150	NWTPH-Dx	5-17-21	5-17-21	
Lube Oil Range Organics	ND	150	NWTPH-Dx	5-17-21	5-17-21	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	110	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0517W1							
	ORIG	DUP						
Diesel Fuel #2	543	495	NA	NA	NA	NA	9	NA
Surrogate:								
<i>o</i> -Terphenyl				114	106	50-150		



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:3.0					
Laboratory ID:	05-073-01					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.013	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0071	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0078	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:3.0					
Laboratory ID:	05-073-01					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	114	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	104	71-130				



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:6.0					
Laboratory ID:	05-073-02					
Dichlorodifluoromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.012	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:6.0					
Laboratory ID:	05-073-02					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-130</i>				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:9.0					
Laboratory ID:	05-073-03					
Dichlorodifluoromethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.0098	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0053	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:9.0					
Laboratory ID:	05-073-03					
1,1,2-Trichloroethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0038	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00075	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:12.0					
Laboratory ID:	05-073-04					
Dichlorodifluoromethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0059	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0064	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	



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 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4:12.0					
Laboratory ID:	05-073-04					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.0012	0.00084	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:2.5					
Laboratory ID:	05-073-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.016	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0084	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0022	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0091	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:2.5					
Laboratory ID:	05-073-06					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0024	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>71-130</i>				



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:5.5					
Laboratory ID:	05-073-07					
Dichlorodifluoromethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:5.5					
Laboratory ID:	05-073-07					
1,1,2-Trichloroethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00088	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:9.0					
Laboratory ID:	05-073-08					
Dichlorodifluoromethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.010	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0055	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0014	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:9.0					
Laboratory ID:	05-073-08					
1,1,2-Trichloroethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00079	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-130</i>				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:13.0					
Laboratory ID:	05-073-09					
Dichlorodifluoromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0057	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5:13.0					
Laboratory ID:	05-073-09					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>71-130</i>				



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: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:4.0					
Laboratory ID:	05-073-11					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.013	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0070	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:4.0					
Laboratory ID:	05-073-11					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	117	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	109	71-130				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:8.0					
Laboratory ID:	05-073-12					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.013	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0071	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0077	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:8.0					
Laboratory ID:	05-073-12					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0051	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	116	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	109	71-130				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:12.0					
Laboratory ID:	05-073-13					
Dichlorodifluoromethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.012	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0063	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0068	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:12.0					
Laboratory ID:	05-073-13					
1,1,2-Trichloroethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.0046	0.00090	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0045	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00090	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:14.0					
Laboratory ID:	05-073-14					
Dichlorodifluoromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0057	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6:14.0					
Laboratory ID:	05-073-14					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.0095	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0041	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:3.5					
Laboratory ID:	05-073-16					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.016	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0087	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0022	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0095	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:3.5					
Laboratory ID:	05-073-16					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0025	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	115	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	107	71-130				



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:6.5					
Laboratory ID:	05-073-17					
Dichlorodifluoromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.012	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0062	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0067	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:6.5					
Laboratory ID:	05-073-17					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0044	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:9.5					
Laboratory ID:	05-073-18					
Dichlorodifluoromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:9.5					
Laboratory ID:	05-073-18					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:12.5					
Laboratory ID:	05-073-19					
Dichlorodifluoromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0058	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7:12.5					
Laboratory ID:	05-073-19					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.0043	0.00083	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	112	74-131				
Toluene-d8	97	78-128				
4-Bromofluorobenzene	107	71-130				



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:5.0					
Laboratory ID:	05-073-21					
Dichlorodifluoromethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.012	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0067	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0017	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0072	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:5.0					
Laboratory ID:	05-073-21					
1,1,2-Trichloroethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	0.0032	0.00095	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0019	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	0.0053	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0048	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00095	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:8.0					
Laboratory ID:	05-073-22					
Dichlorodifluoromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Acetone	0.015	0.011	EPA 8260D	5-11-21	5-11-21	Y
Iodomethane	ND	0.0060	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0065	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:8.0					
Laboratory ID:	05-073-22					
1,1,2-Trichloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	0.0087	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	0.027	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0043	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00086	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	115	74-131				
Toluene-d8	96	78-128				
4-Bromofluorobenzene	105	71-130				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:11.0					
Laboratory ID:	05-073-23					
Dichlorodifluoromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Acetone	0.015	0.010	EPA 8260D	5-11-21	5-11-21	Y
Iodomethane	ND	0.0056	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	0.0015	0.0015	EPA 8260D	5-11-21	5-11-21	Y
Methylene Chloride	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Butanone	0.0043	0.0040	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0061	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:11.0					
Laboratory ID:	05-073-23					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	0.027	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0016	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	0.030	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	0.00081	0.00081	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0040	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>71-130</i>				



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:14.0					
Laboratory ID:	05-073-24					
Dichlorodifluoromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.011	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0058	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0015	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8:14.0					
Laboratory ID:	05-073-24					
1,1,2-Trichloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.00087	0.00083	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0017	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0042	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.00083	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>118</i>	<i>74-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>78-128</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-130</i>				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	0.013	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	0.0070	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.0018	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	



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 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511S2					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.0020	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	0.0050	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	112	74-131				
Toluene-d8	95	78-128				
4-Bromofluorobenzene	107	71-130				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent	Recovery	RPD		Flags
					Recovery	Limits			
SPIKE BLANKS									
Laboratory ID:	SB0511S2								
	SB	SBD	SB	SBD	SB	SBD			
1,1-Dichloroethene	0.0431	0.0414	0.0500	0.0500	86	83	71-131	4	19
Benzene	0.0564	0.0558	0.0500	0.0500	113	112	73-124	1	18
Trichloroethene	0.0585	0.0595	0.0500	0.0500	117	119	79-130	2	18
Toluene	0.0511	0.0518	0.0500	0.0500	102	104	76-123	1	18
Chlorobenzene	0.0491	0.0499	0.0500	0.0500	98	100	78-122	2	18
Surrogate:									
Dibromofluoromethane					108	104	74-131		
Toluene-d8					97	96	78-128		
4-Bromofluorobenzene					108	105	71-130		



Date of Report: May 19, 2021
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4 (WATER)					
Laboratory ID:	05-073-05					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	1.3	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	1.4	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	0.68	0.20	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroform	1.2	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	0.75	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-4 (WATER)					
Laboratory ID:	05-073-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	17	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	105	75-127				
Toluene-d8	100	80-127				
4-Bromofluorobenzene	100	78-125				



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 Samples Submitted: May 7, 2021
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5 (WATER)					
Laboratory ID:	05-073-10					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	1.3	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	1.4	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-5 (WATER)					
Laboratory ID:	05-073-10					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	0.66	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	106	75-127				
Toluene-d8	100	80-127				
4-Bromofluorobenzene	99	78-125				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6 (WATER)					
Laboratory ID:	05-073-15					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	1.3	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Acetone	5.7	5.0	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	1.4	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	0.50	0.20	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroform	0.92	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	0.28	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-6 (WATER)					
Laboratory ID:	05-073-15					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	18	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B-7 (WATER)						
Laboratory ID: 05-073-20						
Dichlorodifluoromethane	ND	0.30	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	1.3	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	1.4	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	0.29	0.20	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroform	6.2	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	0.27	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	0.21	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-7 (WATER)					
Laboratory ID:	05-073-20					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	24	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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

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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B-8 (WATER)						
Laboratory ID: 05-073-25						
Dichlorodifluoromethane	ND	0.30	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	1.3	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	1.4	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	0.20	0.20	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	1.5	0.20	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroform	1.2	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	1.1	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	



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VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B-8 (WATER)					
Laboratory ID:	05-073-25					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	44	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	3.7	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	0.24	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	0.24	0.20	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	4.0	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	0.33	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Dibromofluoromethane	107	75-127				
Toluene-d8	99	80-127				
4-Bromofluorobenzene	100	78-125				



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Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	5-11-21	5-11-21	
Chloromethane	ND	1.3	EPA 8260D	5-11-21	5-11-21	
Vinyl Chloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroethane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Acetone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Iodomethane	ND	1.4	EPA 8260D	5-11-21	5-11-21	
Carbon Disulfide	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methylene Chloride	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Vinyl Acetate	ND	1.0	EPA 8260D	5-11-21	5-11-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Butanone	ND	5.0	EPA 8260D	5-11-21	5-11-21	
Bromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chloroform	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Benzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Trichloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Dibromomethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromodichloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Toluene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-11-21	5-11-21	



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 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0511W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Tetrachloroethene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Hexanone	ND	2.0	EPA 8260D	5-11-21	5-11-21	
Dibromochloromethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Chlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Ethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
m,p-Xylene	ND	0.40	EPA 8260D	5-11-21	5-11-21	
o-Xylene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Styrene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromoform	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Isopropylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Bromobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Propylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
n-Butylbenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
Naphthalene	ND	1.0	EPA 8260D	5-11-21	5-11-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-11-21	5-11-21	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	104	75-127				
Toluene-d8	101	80-127				
4-Bromofluorobenzene	98	78-125				



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 Project: ES-6717.02

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Flags
					Recovery				RPD	
SPIKE BLANKS										
Laboratory ID:	SB0511W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.89	9.79	10.0	10.0	99	98	78-124	1	19	
Benzene	9.25	9.24	10.0	10.0	93	92	80-119	0	16	
Trichloroethene	10.2	10.3	10.0	10.0	102	103	80-121	1	18	
Toluene	9.70	9.56	10.0	10.0	97	96	80-117	1	18	
Chlorobenzene	9.46	9.60	10.0	10.0	95	96	80-117	1	17	
Surrogate:										
Dibromofluoromethane					103	103	75-127			
Toluene-d8					100	99	80-127			
4-Bromofluorobenzene					103	102	78-125			



Date of Report: May 19, 2021
 Samples Submitted: May 7, 2021
 Laboratory Reference: 2105-073
 Project: ES-6717.02

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
B-4:3.0	05-073-01	15	5-11-21
B-4:6.0	05-073-02	9	5-11-21
B-4:9.0	05-073-03	7	5-11-21
B-4:12.0	05-073-04	9	5-11-21
B-5:2.5	05-073-06	29	5-11-21
B-5:5.5	05-073-07	10	5-11-21
B-5:9.0	05-073-08	11	5-11-21
B-5:13.0	05-073-09	11	5-11-21
B-6:4.0	05-073-11	18	5-11-21
B-6:8.0	05-073-12	10	5-11-21
B-6:12.0	05-073-13	13	5-11-21
B-6:14.0	05-073-14	10	5-11-21
B-7:3.5	05-073-16	28	5-11-21
B-7:6.5	05-073-17	10	5-11-21
B-7:9.5	05-073-18	9	5-11-21
B-7:12.5	05-073-19	12	5-11-21
B-8:5.0	05-073-21	10	5-11-21
B-8:8.0	05-073-22	8	5-11-21
B-8:11.0	05-073-23	11	5-11-21
B-8:14.0	05-073-24	14	5-11-21





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 gas.
- 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 methods 8260 & 8270, 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



Chain of Custody

Company:
EARTH SOLUTIONS NW
Project Number:
ES-6717.02
Project Name:
53RD APARTMENTS SITE
Project Manager:
TED SYKES
Sampled by:
TED SYKES

**Turnaround Request
(in working days)**

(Select One)

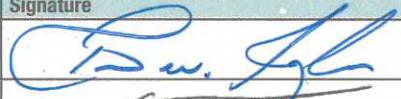
- ☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)

☐ _____ (other)

Number of Containers

Laboratory Number: **05-073**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWTPH	NWTPH	NWTPH	NWTPH	Volatiles	Halogenes	EDB Et	Semivoc (with lo	PAHs 8	PCBs	Organoc	Organoc	Chlorin	Total R	Total M	TCLP M	HEM (c						% Mois
1	B-4:3.0	5/7/21	0756	Soil	5			X	X	X																		X
2	B-4:6.0	}	0805	Soil	5			X	X	X																		
3	B-4:9.0		0810	Soil	5			X	X	X																		
4	B-4:12.0		0815	Soil	5			X	X	X																		
5	B-4 (WATER)		0831	WATER	6			X	X	X																		
6	B-5:2.5		0900	Soil	5			X	X	X																		
7	B-5:5.5		0910	Soil	5			X	X	X																		
8	B-5:9.0		0915	Soil	5			X	X	X																		
9	B-5:13.0		0925	Soil	5			X	X	X																		
10	B-5 (WATER)	✓	0945	WATER	6			X	X	X																		

Signature	Company	Date	Time	Comments/Special Instructions
	ESNW	5/7/21		
	OSE	5/7/21	1520	
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) ☐		

Chain of Custody

Company: EARTH SOLUTIONS NW
Project Number: ES-6717.02
Project Name: 53RD APARTMENTS SITE
Project Manager: TED SYKES
Sampled by: TED SYKES

**Turnaround Request
(in working days)**

(Choose One)

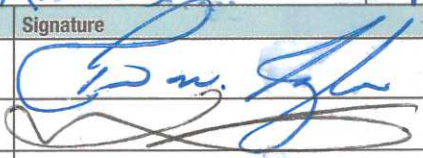
- ☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)

☐ _____ (other)

Number of Containers

Laboratory Number: **05-073**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWTPH	NWTPH	NWTPH	NWTPH	Volatiles	Halogenated	EDB Et	Semivolatiles (with 16 PAHs)	PCBs	Organochlorine	Organophosphorus	Chlorinated	Total R	Total M	TCLP	HEM (d						% Moisture	
11	B-6: 4.0	5/7/21	1020	Soil	5			X	X	X																		X
12	B-6: 8.0		1025	Soil	5			X	X	X																		
13	B-6: 12.0		1031	Soil	5			X	X	X																		
14	B-6: 14.0		1041	Soil	5			X	X	X																		
15	B-6 (WATER)		1055	WATER	6			X	X	X																		
16	B-7: 3.5		1135	Soil	5			X	X	X																		
17	B-7: 6.5		1142	Soil	5			X	X	X																		
18	B-7: 9.5		1152	Soil	5			X	X	X																		
19	B-7: 12.5		1205	Soil	5			X	X	X																		
20	B-7 (WATER)		1220	WATER	6			X	X	X																		

Signature	Company	Date	Time	Comments/Special Instructions
	ESNW	5/7/21		
	QSE	5/7/21	1520	
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) ☐		

Chain of Custody

Company: EARTH SOLUTIONS NW
 Project Number: ES-6717.02
 Project Name: 53RD APARTMENTS SITE
 Project Manager: TED SYKES
 Sampled by: TED SYKES

**Turnaround Request
(in working days)**

(Check One)

- ☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Number of Containers
Laboratory Number: 05-073

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 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A					% Moisture
21	B-8:5.0	5/7/21	1330	Soil	5			X	X	X																	
22	B-8:8.0		1338	Soil	5			X	X	X																	
23	B-8:11.0		1344	Soil	5			X	X	X																	
24	B-8:14.0		1349	Soil	5			X	X	X																	
25	B-8(WATER)		1410	WATER	6			X	X	X																	

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>ESNW</u>	<u>5/7/21</u>		
Received	<u>COSE</u>	<u>5/7/21</u>	<u>1520</u>	
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Data Package: Standard ☐ Level III ☐ Level IV ☐ Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Arina Podnozova, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 9, 2021

Scott Rose, Project Manager
AEG
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Dear Mr Rose:

Included are the results from the testing of material submitted on August 3, 2021 from the Chinook Development 21-101, F&BI 108028 project. There are 17 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
AEG0809R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 3, 2021 by Friedman & Bruya, Inc. from the AEG Chinook Development 21-101, F&BI 108028 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>AEG</u>
108028 -01	SG-3
108028 -02	SG-2
108028 -03	SG-1
108028 -04	SG-4

Non-petroleum compounds identified in the air phase hydrocarbon (APH) ranges were subtracted per the MA-APH method.

The concentration of several analytes exceeded the calibration range of the instrument. The data were flagged accordingly.

The TO-15 calibration standard exceeded the acceptance criteria for 2-propanol. The detected data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	SG-3	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/02/21	Lab ID:	108028-01 1/5.2
Date Analyzed:	08/04/21	Data File:	080411.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3
------------	------------------------

APH EC5-8 aliphatics	3,200 ve
APH EC9-12 aliphatics	550
APH EC9-10 aromatics	<130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	SG-2	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/02/21	Lab ID:	108028-02 1/5.1
Date Analyzed:	08/04/21	Data File:	080413.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	99	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	1,900
APH EC9-12 aliphatics	11,000 ve
APH EC9-10 aromatics	680

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	SG-1	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/02/21	Lab ID:	108028-03 1/5.3
Date Analyzed:	08/04/21	Data File:	080414.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	92	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	2,400
APH EC9-12 aliphatics	960
APH EC9-10 aromatics	<130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	SG-4	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/02/21	Lab ID:	108028-04 1/5.2
Date Analyzed:	08/04/21	Data File:	080415.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	93	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	2,100
APH EC9-12 aliphatics	580
APH EC9-10 aromatics	<130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method MA-APH

Client Sample ID:	Method Blank	Client:	AEG
Date Received:	Not Applicable	Project:	Chinook Development 21-101
Date Collected:	Not Applicable	Lab ID:	01-1720 MB
Date Analyzed:	08/04/21	Data File:	080410.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	87	70	130

Compounds:	Concentration ug/m3
APH EC5-8 aliphatics	<75
APH EC9-12 aliphatics	<25
APH EC9-10 aromatics	<25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID: SG-3	Client: AEG
Date Received: 08/03/21	Project: Chinook Development 21-101
Date Collected: 08/03/21	Lab ID: 108028-01 1/5.2
Date Analyzed: 08/04/21	Data File: 080411.D
Matrix: Air	Instrument: GCMS7
Units: ug/m3	Operator: bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	104	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	830 ve	480 ve	1,2-Dichloropropane	<1.2	<0.26
Dichlorodifluoromethane	<2.6	<0.52	1,4-Dioxane	<1.9	<0.52
Chloromethane	<19	<9.4	2,2,4-Trimethylpentane	<24	<5.2
F-114	<3.6	<0.52	Methyl methacrylate	<21	<5.2
Vinyl chloride	<1.3	<0.52	Heptane	110	26
1,3-Butadiene	<0.23	<0.1	Bromodichloromethane	<0.35	<0.052
Butane	820 ve	350 ve	Trichloroethene	5.8	1.1
Bromomethane	<12	<3.1	cis-1,3-Dichloropropene	<2.4	<0.52
Chloroethane	<14	<5.2	4-Methyl-2-pentanone	<21	<5.2
Vinyl bromide	<2.3	<0.52	trans-1,3-Dichloropropene	<2.4	<0.52
Ethanol	44	24	Toluene	<98	<26
Acrolein	<0.57	<0.26	1,1,2-Trichloroethane	<0.28	<0.052
Pentane	350 ve	120 ve	2-Hexanone	<21	<5.2
Trichlorofluoromethane	<12	<2.1	Tetrachloroethene	83	12
Acetone	120	50	Dibromochloromethane	<0.44	<0.052
2-Propanol	59 ca	24 ca	1,2-Dibromoethane (EDB)	<0.4	<0.052
1,1-Dichloroethene	<2.1	<0.52	Chlorobenzene	<2.4	<0.52
trans-1,2-Dichloroethene	<2.1	<0.52	Ethylbenzene	10	2.3
Methylene chloride	<180	<52	1,1,2,2-Tetrachloroethane	<0.71	<0.1
t-Butyl alcohol (TBA)	<63	<21	Nonane	43	8.1
3-Chloropropene	<8.1	<2.6	Isopropylbenzene	<13	<2.6
CFC-113	<4	<0.52	2-Chlorotoluene	<27	<5.2
Carbon disulfide	36	11	Propylbenzene	<13	<2.6
Methyl t-butyl ether (MTBE)	<9.4	<2.6	4-Ethyltoluene	<13	<2.6
Vinyl acetate	<36	<10	m,p-Xylene	32	7.4
1,1-Dichloroethane	<2.1	<0.52	o-Xylene	11	2.5
cis-1,2-Dichloroethene	<2.1	<0.52	Styrene	<4.4	<1
Hexane	200	57	Bromoform	<11	<1
Chloroform	0.89	0.18	Benzyl chloride	<0.27	<0.052
Ethyl acetate	<37	<10	1,3,5-Trimethylbenzene	<13	<2.6
Tetrahydrofuran	<3.1	<1	1,2,4-Trimethylbenzene	<13	<2.6
2-Butanone (MEK)	36	12	1,3-Dichlorobenzene	<3.1	<0.52
1,2-Dichloroethane (EDC)	<0.21	<0.052	1,4-Dichlorobenzene	<1.2	<0.2
1,1,1-Trichloroethane	<2.8	<0.52	1,2-Dichlorobenzene	<3.1	<0.52
Carbon tetrachloride	<1.6	<0.26	1,2,4-Trichlorobenzene	<3.9	<0.52
Benzene	37	12	Naphthalene	1.9	0.36
Cyclohexane	120	34	Hexachlorobutadiene	<1.1	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SG-2	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/03/21	Lab ID:	108028-02 1/5.1
Date Analyzed:	08/04/21	Data File:	080413.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	109	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	340 ve	200 ve	1,2-Dichloropropane	<1.2	<0.25
Dichlorodifluoromethane	2.7	0.55	1,4-Dioxane	<1.8	<0.51
Chloromethane	<19	<9.2	2,2,4-Trimethylpentane	34	7.3
F-114	<3.6	<0.51	Methyl methacrylate	<21	<5.1
Vinyl chloride	<1.3	<0.51	Heptane	31	7.5
1,3-Butadiene	<0.22	<0.1	Bromodichloromethane	<0.34	<0.051
Butane	200 ve	83 ve	Trichloroethene	<0.55	<0.1
Bromomethane	<12	<3.1	cis-1,3-Dichloropropene	<2.3	<0.51
Chloroethane	<13	<5.1	4-Methyl-2-pentanone	22	5.3
Vinyl bromide	<2.2	<0.51	trans-1,3-Dichloropropene	<2.3	<0.51
Ethanol	72	38	Toluene	<96	<25
Acrolein	<0.56	<0.25	1,1,2-Trichloroethane	<0.28	<0.051
Pentane	82	28	2-Hexanone	<21	<5.1
Trichlorofluoromethane	<11	<2	Tetrachloroethene	<35	<5.1
Acetone	150	65	Dibromochloromethane	<0.43	<0.051
2-Propanol	<44	<18	1,2-Dibromoethane (EDB)	<0.39	<0.051
1,1-Dichloroethene	<2	<0.51	Chlorobenzene	<2.3	<0.51
trans-1,2-Dichloroethene	<2	<0.51	Ethylbenzene	10	2.4
Methylene chloride	<180	<51	1,1,2,2-Tetrachloroethane	<0.7	<0.1
t-Butyl alcohol (TBA)	<62	<20	Nonane	43	8.1
3-Chloropropene	<8	<2.5	Isopropylbenzene	<13	<2.5
CFC-113	<3.9	<0.51	2-Chlorotoluene	<26	<5.1
Carbon disulfide	180	58	Propylbenzene	<13	<2.5
Methyl t-butyl ether (MTBE)	<9.2	<2.5	4-Ethyltoluene	<13	<2.5
Vinyl acetate	<36	<10	m,p-Xylene	36	8.2
1,1-Dichloroethane	<2.1	<0.51	o-Xylene	16	3.6
cis-1,2-Dichloroethene	<2	<0.51	Styrene	6.0	1.4
Hexane	45	13	Bromoform	<11	<1
Chloroform	0.42	0.087	Benzyl chloride	<0.26	<0.051
Ethyl acetate	<37	<10	1,3,5-Trimethylbenzene	<13	<2.5
Tetrahydrofuran	<3	<1	1,2,4-Trimethylbenzene	33	6.7
2-Butanone (MEK)	27	9.1	1,3-Dichlorobenzene	<3.1	<0.51
1,2-Dichloroethane (EDC)	<0.21	<0.051	1,4-Dichlorobenzene	<1.2	<0.19
1,1,1-Trichloroethane	<2.8	<0.51	1,2-Dichlorobenzene	<3.1	<0.51
Carbon tetrachloride	<1.6	<0.25	1,2,4-Trichlorobenzene	<3.8	<0.51
Benzene	27	8.6	Naphthalene	12	2.2
Cyclohexane	<35	<10	Hexachlorobutadiene	<1.1	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SG-1	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/03/21	Lab ID:	108028-03 1/5.3
Date Analyzed:	08/04/21	Data File:	080414.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
Surrogates:			
4-Bromofluorobenzene	101	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	320 ve	190 ve	1,2-Dichloropropane	<1.2	<0.26
Dichlorodifluoromethane	<2.6	<0.53	1,4-Dioxane	<1.9	<0.53
Chloromethane	<20	<9.5	2,2,4-Trimethylpentane	<25	<5.3
F-114	<3.7	<0.53	Methyl methacrylate	<22	<5.3
Vinyl chloride	<1.4	<0.53	Heptane	52	13
1,3-Butadiene	<0.23	<0.11	Bromodichloromethane	<0.36	<0.053
Butane	230 ve	95 ve	Trichloroethene	1.3	0.24
Bromomethane	<12	<3.2	cis-1,3-Dichloropropene	<2.4	<0.53
Chloroethane	<14	<5.3	4-Methyl-2-pentanone	<22	<5.3
Vinyl bromide	<2.3	<0.53	trans-1,3-Dichloropropene	<2.4	<0.53
Ethanol	52	28	Toluene	<100	<26
Acrolein	<0.58	<0.27	1,1,2-Trichloroethane	<0.29	<0.053
Pentane	110	37	2-Hexanone	<22	<5.3
Trichlorofluoromethane	<12	<2.1	Tetrachloroethene	110	17
Acetone	67	28	Dibromochloromethane	<0.45	<0.053
2-Propanol	<46	<19	1,2-Dibromoethane (EDB)	<0.41	<0.053
1,1-Dichloroethene	<2.1	<0.53	Chlorobenzene	<2.4	<0.53
trans-1,2-Dichloroethene	<2.1	<0.53	Ethylbenzene	6.4	1.5
Methylene chloride	<180	<53	1,1,2,2-Tetrachloroethane	<0.73	<0.11
t-Butyl alcohol (TBA)	<64	<21	Nonane	39	7.4
3-Chloropropene	<8.3	<2.6	Isopropylbenzene	<13	<2.6
CFC-113	<4.1	<0.53	2-Chlorotoluene	<27	<5.3
Carbon disulfide	67	21	Propylbenzene	<13	<2.6
Methyl t-butyl ether (MTBE)	<9.6	<2.6	4-Ethyltoluene	<13	<2.6
Vinyl acetate	<37	<11	m,p-Xylene	22	5.0
1,1-Dichloroethane	<2.1	<0.53	o-Xylene	9.3	2.1
cis-1,2-Dichloroethene	<2.1	<0.53	Styrene	<4.5	<1.1
Hexane	67	19	Bromoform	<11	<1.1
Chloroform	0.96	0.20	Benzyl chloride	<0.27	<0.053
Ethyl acetate	<38	<11	1,3,5-Trimethylbenzene	<13	<2.6
Tetrahydrofuran	<3.1	<1.1	1,2,4-Trimethylbenzene	14	2.8
2-Butanone (MEK)	21	7.1	1,3-Dichlorobenzene	<3.2	<0.53
1,2-Dichloroethane (EDC)	<0.21	<0.053	1,4-Dichlorobenzene	<1.2	<0.2
1,1,1-Trichloroethane	<2.9	<0.53	1,2-Dichlorobenzene	<3.2	<0.53
Carbon tetrachloride	<1.7	<0.26	1,2,4-Trichlorobenzene	<3.9	<0.53
Benzene	13	4.2	Naphthalene	1.4	0.26
Cyclohexane	46	13	Hexachlorobutadiene	<1.1	<0.11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	SG-4	Client:	AEG
Date Received:	08/03/21	Project:	Chinook Development 21-101
Date Collected:	08/03/21	Lab ID:	108028-04 1/5.2
Date Analyzed:	08/04/21	Data File:	080415.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	102	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	170 ve	97 ve	1,2-Dichloropropane	<1.2	<0.26
Dichlorodifluoromethane	<2.6	<0.52	1,4-Dioxane	<1.9	<0.52
Chloromethane	<19	<9.4	2,2,4-Trimethylpentane	<24	<5.2
F-114	<3.6	<0.52	Methyl methacrylate	<21	<5.2
Vinyl chloride	<1.3	<0.52	Heptane	31	7.7
1,3-Butadiene	<0.23	<0.1	Bromodichloromethane	<0.35	<0.052
Butane	95	40	Trichloroethene	<0.56	<0.1
Bromomethane	<12	<3.1	cis-1,3-Dichloropropene	<2.4	<0.52
Chloroethane	<14	<5.2	4-Methyl-2-pentanone	<21	<5.2
Vinyl bromide	<2.3	<0.52	trans-1,3-Dichloropropene	<2.4	<0.52
Ethanol	52	27	Toluene	<98	<26
Acrolein	7.1	3.1	1,1,2-Trichloroethane	<0.28	<0.052
Pentane	77	26	2-Hexanone	<21	<5.2
Trichlorofluoromethane	<12	<2.1	Tetrachloroethene	<35	<5.2
Acetone	520 ve	220 ve	Dibromochloromethane	<0.44	<0.052
2-Propanol	45 ca	18 ca	1,2-Dibromoethane (EDB)	<0.4	<0.052
1,1-Dichloroethene	<2.1	<0.52	Chlorobenzene	<2.4	<0.52
trans-1,2-Dichloroethene	<2.1	<0.52	Ethylbenzene	10	2.3
Methylene chloride	<180	<52	1,1,2,2-Tetrachloroethane	<0.71	<0.1
t-Butyl alcohol (TBA)	<63	<21	Nonane	92	18
3-Chloropropene	<8.1	<2.6	Isopropylbenzene	<13	<2.6
CFC-113	<4	<0.52	2-Chlorotoluene	<27	<5.2
Carbon disulfide	<32	<10	Propylbenzene	<13	<2.6
Methyl t-butyl ether (MTBE)	<9.4	<2.6	4-Ethyltoluene	<13	<2.6
Vinyl acetate	<37	<10	m,p-Xylene	38	8.7
1,1-Dichloroethane	<2.1	<0.52	o-Xylene	13	3.0
cis-1,2-Dichloroethene	<2.1	<0.52	Styrene	<4.4	<1
Hexane	38	11	Bromoform	<11	<1
Chloroform	0.81	0.17	Benzyl chloride	<0.27	<0.052
Ethyl acetate	<37	<10	1,3,5-Trimethylbenzene	<13	<2.6
Tetrahydrofuran	<3.1	<1	1,2,4-Trimethylbenzene	<13	<2.6
2-Butanone (MEK)	30	10	1,3-Dichlorobenzene	<3.1	<0.52
1,2-Dichloroethane (EDC)	<0.21	<0.052	1,4-Dichlorobenzene	<1.2	<0.2
1,1,1-Trichloroethane	<2.8	<0.52	1,2-Dichlorobenzene	<3.1	<0.52
Carbon tetrachloride	<1.6	<0.26	1,2,4-Trichlorobenzene	<3.9	<0.52
Benzene	20	6.4	Naphthalene	2.2	0.41
Cyclohexane	<36	<10	Hexachlorobutadiene	<1.1	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	AEG
Date Received:	Not Applicable	Project:	Chinook Development 21-101
Date Collected:	Not Applicable	Lab ID:	01-1720 MB
Date Analyzed:	08/04/21	Data File:	080410.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	95	70	130

Compounds:	Concentration ug/m3	ppbv	Compounds:	Concentration ug/m3	ppbv
Propene	<1.2	<0.7	1,2-Dichloropropane	<0.23	<0.05
Dichlorodifluoromethane	<0.49	<0.1	1,4-Dioxane	<0.36	<0.1
Chloromethane	<3.7	<1.8	2,2,4-Trimethylpentane	<4.7	<1
F-114	<0.7	<0.1	Methyl methacrylate	<4.1	<1
Vinyl chloride	<0.26	<0.1	Heptane	<4.1	<1
1,3-Butadiene	<0.044	<0.02	Bromodichloromethane	<0.067	<0.01
Butane	<4.8	<2	Trichloroethene	<0.11	<0.02
Bromomethane	<2.3	<0.6	cis-1,3-Dichloropropene	<0.45	<0.1
Chloroethane	<2.6	<1	4-Methyl-2-pentanone	<4.1	<1
Vinyl bromide	<0.44	<0.1	trans-1,3-Dichloropropene	<0.45	<0.1
Ethanol	<7.5	<4	Toluene	<19	<5
Acrolein	<0.11	<0.05	1,1,2-Trichloroethane	<0.055	<0.01
Pentane	<3	<1	2-Hexanone	<4.1	<1
Trichlorofluoromethane	<2.2	<0.4	Tetrachloroethene	<6.8	<1
Acetone	<4.8	<2	Dibromochloromethane	<0.085	<0.01
2-Propanol	<8.6	<3.5	1,2-Dibromoethane (EDB)	<0.077	<0.01
1,1-Dichloroethene	<0.4	<0.1	Chlorobenzene	<0.46	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1	Ethylbenzene	<0.43	<0.1
Methylene chloride	<35	<10	1,1,2,2-Tetrachloroethane	<0.14	<0.02
t-Butyl alcohol (TBA)	<12	<4	Nonane	<5.2	<1
3-Chloropropene	<1.6	<0.5	Isopropylbenzene	<2.5	<0.5
CFC-113	<0.77	<0.1	2-Chlorotoluene	<5.2	<1
Carbon disulfide	<6.2	<2	Propylbenzene	<2.5	<0.5
Methyl t-butyl ether (MTBE)	<1.8	<0.5	4-Ethyltoluene	<2.5	<0.5
Vinyl acetate	<7	<2	m,p-Xylene	<0.87	<0.2
1,1-Dichloroethane	<0.4	<0.1	o-Xylene	<0.43	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1	Styrene	<0.85	<0.2
Hexane	<3.5	<1	Bromoform	<2.1	<0.2
Chloroform	<0.049	<0.01	Benzyl chloride	<0.052	<0.01
Ethyl acetate	<7.2	<2	1,3,5-Trimethylbenzene	<2.5	<0.5
Tetrahydrofuran	<0.59	<0.2	1,2,4-Trimethylbenzene	<2.5	<0.5
2-Butanone (MEK)	<2.9	<1	1,3-Dichlorobenzene	<0.6	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01	1,4-Dichlorobenzene	<0.23	<0.038
1,1,1-Trichloroethane	<0.55	<0.1	1,2-Dichlorobenzene	<0.6	<0.1
Carbon tetrachloride	<0.31	<0.05	1,2,4-Trichlorobenzene	<0.74	<0.1
Benzene	<0.32	<0.1	Naphthalene	<0.26	<0.05
Cyclohexane	<6.9	<2	Hexachlorobutadiene	<0.21	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/09/21

Date Received: 08/03/21

Project: Chinook Development 21-101, F&BI 108028

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD MA-APH**

Laboratory Code: 108028-01 1/5.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
APH EC5-8 aliphatics	ug/m3	3,200 ve	3,300 ve	3
APH EC9-12 aliphatics	ug/m3	550	570	4
APH EC9-10 aromatics	ug/m3	<130	<130	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
APH EC5-8 aliphatics	ug/m3	67	74	70-130
APH EC9-12 aliphatics	ug/m3	67	93	70-130
APH EC9-10 aromatics	ug/m3	67	92	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/09/21

Date Received: 08/03/21

Project: Chinook Development 21-101, F&BI 108028

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108028-01 1/5.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Propene	ug/m3	830 ve	840 ve	1
Dichlorodifluoromethane	ug/m3	<2.6	<2.6	nm
Chloromethane	ug/m3	<19	<19	nm
F-114	ug/m3	<3.6	<3.6	nm
Vinyl chloride	ug/m3	<1.3	<1.3	nm
1,3-Butadiene	ug/m3	<0.23	<0.23	nm
Butane	ug/m3	820 ve	820 ve	0
Bromomethane	ug/m3	<12	<12	nm
Chloroethane	ug/m3	<14	<14	nm
Vinyl bromide	ug/m3	<2.3	<2.3	nm
Ethanol	ug/m3	44	50	13
Acrolein	ug/m3	<0.57	<0.57	nm
Pentane	ug/m3	350 ve	360 ve	3
Trichlorofluoromethane	ug/m3	<12	<12	nm
Acetone	ug/m3	120	110	9
2-Propanol	ug/m3	59	61	3
1,1-Dichloroethene	ug/m3	<2.1	<2.1	nm
trans-1,2-Dichloroethene	ug/m3	<2.1	<2.1	nm
Methylene chloride	ug/m3	<180	<180	nm
t-Butyl alcohol (TBA)	ug/m3	<63	<63	nm
3-Chloropropene	ug/m3	<8.1	<8.1	nm
CFC-113	ug/m3	<4	<4	nm
Carbon disulfide	ug/m3	36	40	11
Methyl t-butyl ether (MTBE)	ug/m3	<9.4	<9.4	nm
Vinyl acetate	ug/m3	<36	<36	nm
1,1-Dichloroethane	ug/m3	<2.1	<2.1	nm
cis-1,2-Dichloroethene	ug/m3	<2.1	<2.1	nm
Hexane	ug/m3	200	200	0
Chloroform	ug/m3	0.89	0.86	3
Ethyl acetate	ug/m3	<37	<37	nm
Tetrahydrofuran	ug/m3	<3.1	<3.1	nm
2-Butanone (MEK)	ug/m3	36	39	8
1,2-Dichloroethane (EDC)	ug/m3	<0.21	<0.21	nm
1,1,1-Trichloroethane	ug/m3	<2.8	<2.8	nm
Carbon tetrachloride	ug/m3	<1.6	<1.6	nm
Benzene	ug/m3	37	37	0
Cyclohexane	ug/m3	120	110	9
1,2-Dichloropropane	ug/m3	<1.2	<1.2	nm
1,4-Dioxane	ug/m3	<1.9	<1.9	nm
2,2,4-Trimethylpentane	ug/m3	<24	<24	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Methyl methacrylate

ug/m3

<21

<21

nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/09/21

Date Received: 08/03/21

Project: Chinook Development 21-101, F&BI 108028

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: 108028-01 1/5.2 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Heptane	ug/m3	110	110	0
Bromodichloromethane	ug/m3	<0.35	<0.35	nm
Trichloroethene	ug/m3	5.8	5.5	5
cis-1,3-Dichloropropene	ug/m3	<2.4	<2.4	nm
4-Methyl-2-pentanone	ug/m3	<21	<21	nm
trans-1,3-Dichloropropene	ug/m3	<2.4	<2.4	nm
Toluene	ug/m3	<98	<98	nm
1,1,2-Trichloroethane	ug/m3	<0.28	<0.28	nm
2-Hexanone	ug/m3	<21	<21	nm
Tetrachloroethene	ug/m3	83	85	2
Dibromochloromethane	ug/m3	<0.44	<0.44	nm
1,2-Dibromoethane (EDB)	ug/m3	<0.4	<0.4	nm
Chlorobenzene	ug/m3	<2.4	<2.4	nm
Ethylbenzene	ug/m3	10	10	0
1,1,2,2-Tetrachloroethane	ug/m3	<0.71	<0.71	nm
Nonane	ug/m3	43	42	2
Isopropylbenzene	ug/m3	<13	<13	nm
2-Chlorotoluene	ug/m3	<27	<27	nm
Propylbenzene	ug/m3	<13	<13	nm
4-Ethyltoluene	ug/m3	<13	<13	nm
m,p-Xylene	ug/m3	32	32	0
o-Xylene	ug/m3	11	11	0
Styrene	ug/m3	<4.4	<4.4	nm
Bromoform	ug/m3	<11	<11	nm
Benzyl chloride	ug/m3	<0.27	<0.27	nm
1,3,5-Trimethylbenzene	ug/m3	<13	<13	nm
1,2,4-Trimethylbenzene	ug/m3	<13	<13	nm
1,3-Dichlorobenzene	ug/m3	<3.1	<3.1	nm
1,4-Dichlorobenzene	ug/m3	<1.2	<1.2	nm
1,2-Dichlorobenzene	ug/m3	<3.1	<3.1	nm
1,2,4-Trichlorobenzene	ug/m3	<3.9	<3.9	nm
Naphthalene	ug/m3	1.9	2.0	5
Hexachlorobutadiene	ug/m3	<1.1	<1.1	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/09/21

Date Received: 08/03/21

Project: Chinook Development 21-101, F&BI 108028

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-15**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Propene	ug/m3	23	93	70-130
Dichlorodifluoromethane	ug/m3	67	99	70-130
Chloromethane	ug/m3	28	87	70-130
F-114	ug/m3	94	102	70-130
Vinyl chloride	ug/m3	35	94	70-130
1,3-Butadiene	ug/m3	30	89	70-130
Butane	ug/m3	32	92	70-130
Bromomethane	ug/m3	52	109	70-130
Chloroethane	ug/m3	36	96	70-130
Vinyl bromide	ug/m3	59	107	70-130
Ethanol	ug/m3	25	94	70-130
Acrolein	ug/m3	31	95	70-130
Pentane	ug/m3	40	95	70-130
Trichlorofluoromethane	ug/m3	76	104	70-130
Acetone	ug/m3	32	90	70-130
2-Propanol	ug/m3	33	175 vo	70-130
1,1-Dichloroethene	ug/m3	54	100	70-130
trans-1,2-Dichloroethene	ug/m3	54	98	70-130
Methylene chloride	ug/m3	94	79	70-130
t-Butyl alcohol (TBA)	ug/m3	41	91	70-130
3-Chloropropene	ug/m3	42	94	70-130
CFC-113	ug/m3	100	101	70-130
Carbon disulfide	ug/m3	42	88	70-130
Methyl t-butyl ether (MTBE)	ug/m3	49	95	70-130
Vinyl acetate	ug/m3	48	91	70-130
1,1-Dichloroethane	ug/m3	55	98	70-130
cis-1,2-Dichloroethene	ug/m3	54	99	70-130
Hexane	ug/m3	48	87	70-130
Chloroform	ug/m3	66	100	70-130
Ethyl acetate	ug/m3	49	98	70-130
Tetrahydrofuran	ug/m3	40	88	70-130
2-Butanone (MEK)	ug/m3	40	91	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	96	70-130
1,1,1-Trichloroethane	ug/m3	74	101	70-130
Carbon tetrachloride	ug/m3	85	101	70-130
Benzene	ug/m3	43	97	70-130
Cyclohexane	ug/m3	46	94	70-130
1,2-Dichloropropane	ug/m3	62	94	70-130
1,4-Dioxane	ug/m3	49	97	70-130
2,2,4-Trimethylpentane	ug/m3	63	93	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Methyl methacrylate

ug/m3

55

95

70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/09/21

Date Received: 08/03/21

Project: Chinook Development 21-101, F&BI 108028

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES FOR VOLATILES BY METHOD TO-15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Heptane	ug/m3	55	92	70-130
Bromodichloromethane	ug/m3	90	97	70-130
Trichloroethene	ug/m3	73	110	70-130
cis-1,3-Dichloropropene	ug/m3	61	104	70-130
4-Methyl-2-pentanone	ug/m3	55	94	70-130
trans-1,3-Dichloropropene	ug/m3	61	96	70-130
Toluene	ug/m3	51	97	70-130
1,1,2-Trichloroethane	ug/m3	74	97	70-130
2-Hexanone	ug/m3	55	94	70-130
Tetrachloroethene	ug/m3	92	106	70-130
Dibromochloromethane	ug/m3	120	99	70-130
1,2-Dibromoethane (EDB)	ug/m3	100	96	70-130
Chlorobenzene	ug/m3	62	103	70-130
Ethylbenzene	ug/m3	59	96	70-130
1,1,2,2-Tetrachloroethane	ug/m3	93	99	70-130
Nonane	ug/m3	71	91	70-130
Isopropylbenzene	ug/m3	66	101	70-130
2-Chlorotoluene	ug/m3	70	102	70-130
Propylbenzene	ug/m3	66	98	70-130
4-Ethyltoluene	ug/m3	66	96	70-130
m,p-Xylene	ug/m3	120	100	70-130
o-Xylene	ug/m3	59	104	70-130
Styrene	ug/m3	58	104	70-130
Bromoform	ug/m3	140	111	70-130
Benzyl chloride	ug/m3	70	106	70-130
1,3,5-Trimethylbenzene	ug/m3	66	94	70-130
1,2,4-Trimethylbenzene	ug/m3	66	100	70-130
1,3-Dichlorobenzene	ug/m3	81	103	70-130
1,4-Dichlorobenzene	ug/m3	81	105	70-130
1,2-Dichlorobenzene	ug/m3	81	105	70-130
1,2,4-Trichlorobenzene	ug/m3	100	97	70-130
Naphthalene	ug/m3	71	105	70-130
Hexachlorobutadiene	ug/m3	140	104	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the lowest calibration standard. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

108028

SAMPLE CHAIN OF CUSTODY

ME 08/03/21

Report To Becky DillhaCompany AEI

Address _____

City, State, ZIP _____

Phone _____

Email William BaegmanSAMPLERS (signature) R

Page # _____ of _____

PROJECT NAME & ADDRESS

Charles DillhaSeattle, WA

PO #

21-101

NOTES:

INVOICE TO

AEI

TURNAROUND TIME

☒ Standard☐ RUSH

Rush charges authorized by: _____

SAMPLE DISPOSAL

☒ Default: Clean after 3 days☐ Archive (Fee may apply)

SAMPLE INFORMATION

INFORMATION										ANALYSIS REQUESTED						Notes
Sample Name	Lab ID	Canister ID	Flow Cont. ID	Reporting Level: IA=Indoor Air SG=Soil Gas (Circle One)	Date Sampled	Initial Vac. ("Hg)	Field Initial Time	Final Vac. ("Hg)	Field Final Time	TO15 Full Scan	TO15 BTEXN	TO15 cVOCs	APH	Helium		
SG-3	01	4176	255	IA / <u>SG</u>	8/3/21	-30	1206	-2	1213	X			X			
SG-2 SG-2	02	4185	301	IA / <u>SG</u>	(	-29	1212	0	1219	X			Y			
SG-1	03	8524	244	IA / <u>SG</u>		-30	1221	-1	1232	X			X			
SG-4	04	8209	307	IA / <u>SG</u>		-30	1347		1355	Y			Y			
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
				IA / SG												
Samples received at 25 °C																

Samples received at 25 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COCTO-15.DOC

SIGNATURE		PRINT NAME		COMPANY	DATE	TIME
Relinquished by:	<u>g</u>		<u>Rebecca Dillha</u>	<u>AEI</u>	<u>1528</u>	<u>1405</u>
Received by:	<u>m/Phan</u>		<u>Nhan Phan</u>	<u>FEB I</u>	<u>8/3/21</u>	<u>1405</u>
Relinquished by:						
Received by:						



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

August 10, 2021

Scott Rose
Associated Environmental Group, LLC
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Dear Mr. Rose:

Please find enclosed the analytical data report for the Chinook Development Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210804-8
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Soil

Sample Description		Method Blank	MW1-13	MW1-13 Dup	MW2-13	MW3-13	MW4-13
Date Sampled		N/A	8/3/2021	8/3/2021	8/3/2021	8/3/2021	8/3/2021
Date Analyzed	PQL	8/8/2021	8/8/2021	8/8/2021	8/8/2021	8/8/2021	8/8/2021
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Vinyl Chloride (VC)	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	0.03	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.03	nd	0.016 J	0.051	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		130	129	124	131	126	128
1,2-Dichloroethane-d4		135	128	125	122	127	129
Toluene-d8		89	67	93	66	83	94
4-Bromofluorobenzene		88	79	83	74	89	81

"J" Result is less than the PQL but greater than the MDL. Reported value is approximate.

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Seattle, Washington

Libby Project # L210804-8

Client Project # 21-101

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Soil

Sample Description		MW5-13
Date Sampled		8/4/2021
Date Analyzed	PQL	8/8/2021
	(mg/kg)	(mg/kg)
Vinyl Chloride (VC)	0.02	nd
1,1-Dichloroethene	0.05	nd
trans-1,2-Dichloroethene	0.03	nd
cis-1,2-Dichloroethene	0.03	nd
Trichloroethene (TCE)	0.02	nd
Tetrachloroethene (PCE)	0.03	nd
Surrogate Recovery		
Dibromofluoromethane		127
1,2-Dichloroethane-d4		129
Toluene-d8		90
4-Bromofluorobenzene		82

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210804-8
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
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Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Soil

Sample Description		Method Blank	MW1-13	MW1-13 Dup	MW2-13	MW3-13	MW4-13
Date Sampled		N/A	8/3/2021	8/3/2021	8/3/2021	8/3/2021	8/3/2021
Date Analyzed	PQL	8/8/2021	8/8/2021	8/8/2021	8/8/2021	8/8/2021	8/8/2021
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Benzene	0.02	nd	nd	nd	nd	nd	nd
Toluene	0.10	nd	nd	nd	nd	nd	nd
Ethylbenzene	0.05	nd	nd	nd	nd	nd	nd
Total Xylenes	0.15	nd	nd	nd	nd	nd	nd
Gasoline	10	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		130	129	124	131	126	128
1,2-Dichloroethane-d4		135	128	125	122	127	129
Toluene-d8		89	67	93	66	83	94
4-Bromofluorobenzene		88	79	83	74	89	81

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210804-8
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Soil

Sample Description		MW5-13
Date Sampled		8/4/2021
Date Analyzed	PQL	8/8/2021
	(mg/kg)	(mg/kg)
Benzene	0.02	nd
Toluene	0.10	nd
Ethylbenzene	0.05	nd
Total Xylenes	0.15	nd
Gasoline	10	nd
Surrogate Recovery		
Dibromofluoromethane		127
1,2-Dichloroethane-d4		129
Toluene-d8		90
4-Bromofluorobenzene		82

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210804-8
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

QA/QC for Volatile Organic Compounds by EPA Method 8260D in Soil

Matrix Spike Sample Identification: MW1-13								
Date Analyzed: 8/8/2021								
	Spiked Conc. (mg/kg)	MS Response (mg/kg)	MSD Response (mg/kg)	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Limits Recovery (%)	Data Flag
Benzene	0.25	0.20	0.19	78	76	3.1	65-135	
Toluene	0.25	0.21	0.21	82	84	1.9	65-135	
Ethylbenzene	0.25	0.21	0.22	86	88	3.2	65-135	
Total Xylenes	0.75	0.59	0.65	79	86	8.9	65-135	
Vinyl Chloride (VC)	0.25	0.26	0.23	106	93	12.9	65-135	
1,1-Dichloroethene	0.25	0.35	0.37	139	150	7.2	65-135	S
trans-1,2-Dichloroethene	0.25	0.35	0.25	138	100	32.3	65-135	S
cis-1,2-Dichloroethene	0.25	0.22	0.20	87	79	9.2	65-135	
Trichloroethene (TCE)	0.25	0.22	0.23	89	90	1.3	65-135	
Tetrachloroethene (PCE)	0.25	0.23	0.25	93	100	7.0	65-135	
Surrogate Recovery (%)				MS	MSD			
Dibromofluoromethane				121	108		65-135	
1,2-Dichloroethane-d4				133	89		65-135	
Toluene-d8				95	95		65-135	
4-Bromofluorobenzene				100	100		65-135	

ACCEPTABLE RPD IS 35%

"S" Spike recovery outside accepted recovery limits.

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210804-8
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Laboratory Control Sample

Date Analyzed: 8/8/2021

	Spiked Conc. (mg/kg)	LCS Response (mg/kg)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Benzene	0.25	0.22	86	80-120	
Toluene	0.25	0.22	87	80-120	
Ethylbenzene	0.25	0.24	96	80-120	
Total Xylenes	0.75	0.69	91	80-120	
Vinyl Chloride (VC)	0.25	0.28	112	80-120	
1,1-Dichloroethene	0.25	0.23	90	80-120	
trans-1,2-Dichloroethene	0.25	0.29	116	80-120	
cis-1,2-Dichloroethene	0.25	0.25	98	80-120	
Trichloroethene (TCE)	0.25	0.25	98	80-120	
Tetrachloroethene (PCE)	0.25	0.25	101	80-120	

Surrogate Recovery

Dibromofluoromethane	117	65-135
1,2-Dichloroethane-d4	120	65-135
Toluene-d8	82	65-135
4-Bromofluorobenzene	102	65-135

ANALYSES PERFORMED BY: Sherry Chilcutt

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Seattle, Washington

Libby Project # L210804-8

Client Project # 21-101

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	8/5/2021	107	nd	nd
MW1-13	8/5/2021	107	nd	nd
MW2-13	8/5/2021	105	nd	nd
MW3-13	8/5/2021	103	nd	nd
MW4-13	8/5/2021	109	nd	nd
MW5-13	8/5/2021	101	nd	nd

Practical Quantitation Limit

50

250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Libby Project # L210804-8

Date Received 8/4/21 16:20

Received By KD

Sample Receipt Checklist

Chain of Custody

- | | | | |
|--------------------------------------|--|------------------------------------|----------------------------------|
| 1. Is the Chain of Custody complete? | ☒ Yes | ☐ No | |
| 2. How was the sample delivered? | ☒ Hand Delivered | ☐ Picked Up | ☐ Shipped |

Log In

- | | | | |
|---|---|--|------------------------------|
| 3. Cooler or Shipping Container is present. | ☒ Yes | ☐ No | ☐ N/A |
| 4. Cooler or Shipping Container is in good condition. | ☒ Yes | ☐ No | ☐ N/A |
| 5. Cooler or Shipping Container has Custody Seals present. | ☐ Yes | ☒ No | ☐ N/A |
| 6. Was an attempt made to cool the samples? | ☒ Yes | ☐ No | ☐ N/A |
| 7. Temperature of cooler (0°C to 8°C recommended) | <u>4.4 °C</u> | | |
| 8. Temperature of sample(s) (0°C to 8°C recommended) | <u>14.5 °C</u> | | |
| 9. Did all containers arrive in good condition (unbroken)? | ☒ Yes | ☐ No | |
| 10. Is it clear what analyses were requested? | ☒ Yes | ☐ No | |
| 11. Did container labels match Chain of Custody? | ☒ Yes | ☐ No | |
| 12. Are matrices correctly identified on Chain of Custody? | ☒ Yes | ☐ No | |
| 13. Are correct containers used for the analysis indicated? | ☒ Yes | ☐ No | |
| 14. Is there sufficient sample volume for indicated analysis? | ☒ Yes | ☐ No | |
| 15. Were all containers properly preserved per each analysis? | ☒ Yes | ☐ No | |
| 16. Were VOA vials collected correctly (no headspace)? | ☒ Yes | ☐ No | ☐ N/A |
| 17. Were all holding times able to be met? | ☒ Yes | ☐ No | |

Discrepancies/ Notes

- | | | | |
|---|------------------------------|-----------------------------|---|
| 18. Was client notified of all discrepancies? | ☐ Yes | ☐ No | ☒ N/A |
|---|------------------------------|-----------------------------|---|

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

- | | |
|---------------|-----------------------------|
| 19. Comments. | VOAs preserved upon receipt |
| | _____ |
| | _____ |
| | _____ |
| | _____ |

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

Date: 8/4/21

Page: 1 of 1

Client:

ABC

Project Manager: B.D. SCOTT ROSE

Address:

Project Name: Chinook Development

City:

State:

Zip:

Location:

City, State: Seattle, WA

Phone:

Fax:

Collector: B.D.

Date of Collection: 8/3 to 8/4/21

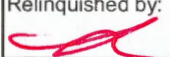
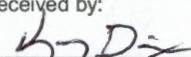
Client Project #

21-101

Email:



Sample Number	Depth	Time	Sample Type	Container Type																	Field Notes
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270					
1 MW1-5	5	1054																	8/3/21		
2 MW1-10	10	1054																			
3 MW1-13	13	1055				X	X	X		X											
4 MW2-5	5	1106																			
5 MW2-10	10	1112																			
6 MW2-13	13	1117				X	X	X		X											
7 MW3-5	5	1132																			
8 MW3-10	10	1142																			
9 MW3-13	13	1147				X	X	X		X											
10 MW4-5	5	1320																			
11 MW4-10	10	1323																			
12 MW4-13	13	1323				X	X	X		X											
13 MW5-5	5	826																8/4/21			
14 MW5-10	10	830																			
15 MW5-13	13	844				X	X	X		X											
16																					
17																					

Relinquished by:  8/4/21 1408	Date / Time	Received by:  B.D.	Date / Time	8-4-21 1620	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers TAT: 24HR 48HR 5-DAY	Remarks:
Relinquished by:	Date / Time	Received by:	Date / Time			
Relinquished by:	Date / Time	Received by:	Date / Time			
Relinquished by:	Date / Time	Received by:	Date / Time			

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Originator



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

August 26, 2021

Scott Rose
Associated Environmental Group, LLC
2633 Parkmont Lane SW, Suite A
Olympia, WA 98502

Dear Mr. Rose:

Please find enclosed the analytical data report for the Chinook Development Project located in Seattle, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

A handwritten signature in black ink, appearing to read "Sherry L. Chilcutt".

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210823-2
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Water

Sample Description		Method	MW-1	MW-2	MW-3	MW-4	MW-5
		Blank					
Date Sampled		N/A	8/23/2021	8/23/2021	8/23/2021	8/23/2021	8/23/2021
Date Analyzed	PQL	8/24/2021	8/24/2021	8/24/2021	8/24/2021	8/24/2021	8/24/2021
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Vinyl Chloride (VC)	0.2	nd	nd	1.1	nd	nd	nd
1,1-Dichloroethene	0.5	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	1.0	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	1.0	nd	nd	2.2	nd	nd	nd
Trichloroethene (TCE)	0.4	nd	nd	4.6	0.49	nd	0.40
Tetrachloroethene (PCE)	1.0	nd	16	4.9	11	0.84 J	25
Surrogate Recovery							
Dibromofluoromethane		95	131	134	110	116	121
1,2-Dichloroethane-d4		104	129	131	109	114	120
Toluene-d8		107	78	84	65	66	67
4-Bromofluorobenzene		79	85	87	89	90	91

"J" Result is less than the PQL but greater than the MDL. Reported value is approximate.

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Seattle, Washington

Libby Project # L210823-2

Client Project # 21-101

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Volatile Organic Compounds by EPA Method 8260D in Water

Sample Description		MW-5 Dup
Date Sampled		8/23/2021
Date Analyzed	PQL	8/24/2021
	(µg/L)	(µg/L)
Vinyl Chloride (VC)	0.2	nd
1,1-Dichloroethene	0.5	nd
trans-1,2-Dichloroethene	1.0	nd
cis -1,2-Dichloroethene	1.0	nd
Trichloroethene (TCE)	0.4	0.38 J
Tetrachloroethene (PCE)	1.0	31
Surrogate Recovery		
Dibromofluoromethane		130
1,2-Dichloroethane-d4		112
Toluene-d8		102
4-Bromofluorobenzene		88
"J" Result is less than the PQL but greater than the MDL. Reported value is approximate.		
"nd" Indicates not detected at listed detection limit.		
"int" Indicates that interference prevents determination.		
ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%		

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Seattle, Washington

Libby Project # L210823-2

Client Project # 21-101

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Water

Sample Description		Method Blank	MW-1	MW-2	MW-3	MW-4	MW-5
Date Sampled		N/A	8/23/2021	8/23/2021	8/23/2021	8/23/2021	8/23/2021
Date Analyzed	PQL (µg/L)	8/24/2021 (µg/L)	8/24/2021 (µg/L)	8/24/2021 (µg/L)	8/24/2021 (µg/L)	8/24/2021 (µg/L)	8/24/2021 (µg/L)
Benzene	1.0	nd	nd	nd	nd	nd	nd
Toluene	2.0	nd	nd	nd	nd	nd	nd
Ethylbenzene	1.0	nd	nd	nd	nd	nd	nd
Total Xylenes	2.0	nd	nd	nd	nd	nd	nd
Gasoline	100	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		95	131	134	110	116	121
1,2-Dichloroethane-d4		104	129	131	109	114	120
Toluene-d8		107	78	84	65	66	67
4-Bromofluorobenzene		79	85	87	89	90	91

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

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Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8260D) in Water

Sample Description		MW-5 Dup
Date Sampled		8/23/2021
Date Analyzed	PQL (µg/L)	8/24/2021 (µg/L)
Benzene	1.0	nd
Toluene	2.0	nd
Ethylbenzene	1.0	nd
Total Xylenes	2.0	nd
Gasoline	100	nd
Surrogate Recovery		
Dibromofluoromethane		130
1,2-Dichloroethane-d4		112
Toluene-d8		102
4-Bromofluorobenzene		88
"nd" Indicates not detected at listed detection limit.		
"int" Indicates that interference prevents determination.		
ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%		

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT
AEG, LLC
Seattle, Washington
Libby Project # L210823-2
Client Project # 21-101

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

QA/QC for Volatile Organic Compounds by EPA Method 8260D in Water

Matrix Spike Sample Identification: MW-5								
Date Analyzed: 8/24/2021								
	Spiked Conc. (µg/L)	MS Response (µg/L)	MSD Response (µg/L)	MS Recovery (%)	MSD Recovery (%)	RPD (%)	Limits Recovery (%)	Data Flag
Benzene	5.0	4.5	5.9	90	118	26.9	65-135	
Toluene	5.0	3.9	3.9	78	78	0.0	65-135	
Ethylbenzene	5.0	5.5	5.5	110	110	0.0	65-135	
Total Xylenes	15.0	15.6	15.6	104	104	0.0	65-135	
Vinyl Chloride (VC)	5.0	3.8	3.7	76	74	2.7	65-135	
1,1-Dichloroethene	5.0	4.7	4.6	94	92	2.2	65-135	
trans-1,2-Dichloroethene	5.0	4.9	4.9	98	98	0.0	65-135	
cis-1,2-Dichloroethene	5.0	5.9	5.0	118	100	16.5	65-135	
Trichloroethene (TCE)	5.0	5.3	5.7	106	114	7.3	65-135	
Tetrachloroethene (PCE)	5.0	7.7	4.1	154	82	61.0	65-135	A
Surrogate Recovery (%)				MS	MSD			
Dibromofluoromethane				114	115	65-135		
1,2-Dichloroethane-d4				96	114	65-135		
Toluene-d8				73	66	65-135		
4-Bromofluorobenzene				108	106	65-135		

ACCEPTABLE RPD IS 35%

"A" Due to high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

ANALYSES PERFORMED BY: Paul Burke

Laboratory Control Sample

Date Analyzed: 8/24/2021					
	Spiked Conc. (µg/L)	LCS Response (µg/L)	LCS Recovery (%)	LCS Recovery Limits (%)	Data Flag
Benzene	5.0	5.1	102	80-120	
Toluene	5.0	5.3	106	80-120	
Ethylbenzene	5.0	4.9	98	80-120	
Total Xylenes	15.0	12.5	83	80-120	
Vinyl Chloride (VC)	5.0	5.1	102	80-120	
1,1-Dichloroethene	5.0	4.3	86	80-120	
trans-1,2-Dichloroethene	5.0	4.2	84	80-120	
cis-1,2-Dichloroethene	5.0	4.5	90	80-120	
Trichloroethene (TCE)	5.0	5.9	118	80-120	
Tetrachloroethene (PCE)	5.0	5.8	116	80-120	
Surrogate Recovery					
Dibromofluoromethane			103	65-135	
1,2-Dichloroethane-d4			111	65-135	
Toluene-d8			116	65-135	
4-Bromofluorobenzene			80	65-135	

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Seattle, Washington

Libby Project # L210823-2

Client Project # 21-101

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Water

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (µg/L)	Oil (µg/L)
Method Blank	8/25/2021	71	nd	nd
MW-1	8/25/2021	66	nd	nd
MW-2	8/25/2021	56	nd	nd
MW-3	8/25/2021	77	nd	nd
MW-4	8/25/2021	69	nd	nd
MW-5	8/25/2021	75	nd	nd

Practical Quantitation Limit

200

400

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 42% TO 150%

ANALYSES PERFORMED BY: Randolph Kraus

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

CHINOOK DEVELOPMENT PROJECT

AEG, LLC

Libby Project # L210823-2

Date Received 8/23/21 15:15

Received By RJK

Sample Receipt Checklist

Chain of Custody

- | | | | |
|--------------------------------------|--|------------------------------------|----------------------------------|
| 1. Is the Chain of Custody complete? | ☒ Yes | ☐ No | |
| 2. How was the sample delivered? | ☒ Hand Delivered | ☐ Picked Up | ☐ Shipped |

Log In

- | | | | |
|---|---|--|------------------------------|
| 3. Cooler or Shipping Container is present. | ☒ Yes | ☐ No | ☐ N/A |
| 4. Cooler or Shipping Container is in good condition. | ☒ Yes | ☐ No | ☐ N/A |
| 5. Cooler or Shipping Container has Custody Seals present. | ☐ Yes | ☒ No | ☐ N/A |
| 6. Was an attempt made to cool the samples? | ☒ Yes | ☐ No | ☐ N/A |
| 7. Temperature of cooler (0°C to 8°C recommended) | <u>-0.3 °C</u> | | |
| 8. Temperature of sample(s) (0°C to 8°C recommended) | <u>4.3 °C</u> | | |
| 9. Did all containers arrive in good condition (unbroken)? | ☒ Yes | ☐ No | |
| 10. Is it clear what analyses were requested? | ☒ Yes | ☐ No | |
| 11. Did container labels match Chain of Custody? | ☒ Yes | ☐ No | |
| 12. Are matrices correctly identified on Chain of Custody? | ☒ Yes | ☐ No | |
| 13. Are correct containers used for the analysis indicated? | ☒ Yes | ☐ No | |
| 14. Is there sufficient sample volume for indicated analysis? | ☒ Yes | ☐ No | |
| 15. Were all containers properly preserved per each analysis? | ☒ Yes | ☐ No | |
| 16. Were VOA vials collected correctly (no headspace)? | ☒ Yes | ☐ No | ☐ N/A |
| 17. Were all holding times able to be met? | ☒ Yes | ☐ No | |

Discrepancies/ Notes

- | | | | |
|---|------------------------------|-----------------------------|---|
| 18. Was client notified of all discrepancies? | ☐ Yes | ☐ No | ☒ N/A |
|---|------------------------------|-----------------------------|---|

Person Notified: _____

Date: _____

By Whom: _____

Via: _____

Regarding: _____

19. Comments.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

Date: 8/23/21

Page: 1 of 1

Client: AEG

Project Manager: SCOTT ROSE

Address: 2633 PARKMONT LANE SW, SUITE A

Project Name: CHINOOK DEVELOPMENT

City: OLYMPIA

State: WA Zip: 98502

Location: 1446 NW 53RD ST City, State: SEATTLE, WA

Phone: (360) 352-9835

Fax:

Collector: L. BUREJ

Date of Collection: 8/23/21

Client Project # Z1-101

Email: SROSE@AEGWA.COM

Sample Number	Depth	Time	Sample Type	Container Type															Field Notes
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCJD	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270	Semi Vol 8270			
1 MW-1	—	0939	G	MIXED	X	X	X	X											
2 MW-2	—	1007	G		X	X	X	X											
3 MW-3	—	1047	G		X	X	X	X											
4 MW-4	—	1130	G		X	X	X	X											
5 MW-5	—	1207	G	↓	X	X	X	X											
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers TAT: 24HR 48HR 5-DAY	Remarks:
	8/23/21 1515		8-23-21 1515		
Relinquished by:	Date / Time	Received by:	Date / Time		
Relinquished by:	Date / Time	Received by:	Date / Time		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Originator



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation>.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: Chinook Development

Facility/Site Address: 1446 NW 53rd Street, Seattle, Washington

Facility/Site No:

VCP Project No.:

Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the valuation and their contact information.

Name: Scott Rose

Title: Senior Hydrogeologist

Organization: Associated Environmental Group

Mailing address: 2633 Parkmont Lane SW, Suite A

City: Olympia

State: WA

Zip code: 98502

Phone: 360-352-9835

Fax: 360-352-8164

E-mail: srose@aegwa.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- ☒ Yes *If you answered "YES," then answer **Question 2**.*
- ☐ No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- ☐ All soil contamination is, or will be,* at least 15 feet below the surface.
- ☐ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- ☒ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- ☐ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- ☒ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- ☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

"Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 2** below.*
- ☐ No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 3** below.*
- ☐ No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- ☐ Yes *If you answered "YES," then answer **Question 4** below.*
- ☐ No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- ☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- ☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- ☐ Area of soil contamination at the Site is not more than 350 square feet.
- ☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- ☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- ☐ Yes *If you answered “YES,” then answer **Question 2** below.*
- ☐ No *If you answered “NO,” then identify the reason here and then skip to **Question 5** below:*
- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?
Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

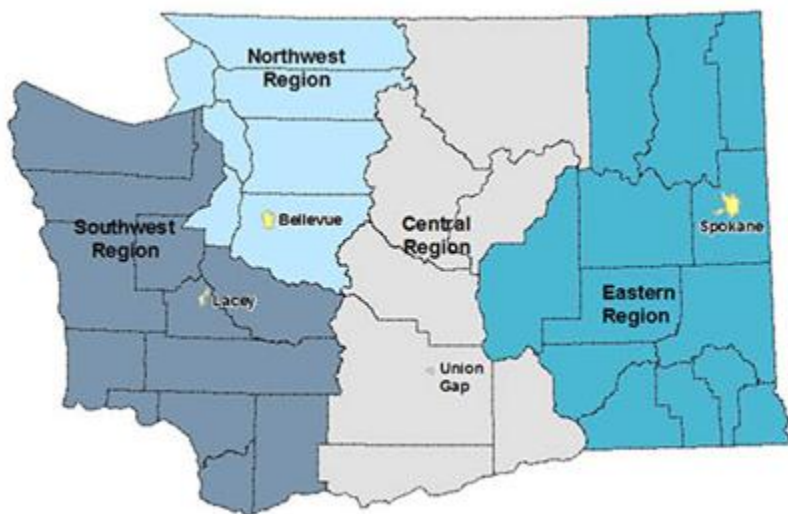
- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology’s approval of both your problem formulation and problem resolution steps?

- ☐ Yes If so, please identify the Ecology staff who approved those steps:
- ☐ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: VCP Coordinator 3190 160 th Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.

APPENDIX B

Supporting Documents

*Former Unocal 5479 & Wendy's Figures and Data Tables
from Ecology Site File*

TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA

Sample Number	Date Sampled	Depth of Sample (feet)	BETX (1) (EPA Method 8020) (ppm)				Fuel Hydrocarbons (Modified EPA Method 8015)		TPH (2) (EPA Method 418.1)
			B	E	T	X	Concentration (ppm)	Quantified As	
MW-1-2	07/26/90	8.0	<0.025	<0.025	<0.025	<0.025	<5		--
MW-2-2	07/26/90	8.0	<0.025	<0.025	<0.025	<0.025	--		30
MW-3-2	07/26/90	8.0	<0.025	0.26	0.11	1.3	190	Gasoline	--
MW-3-3	07/26/90	13.0	0.81	27	12	170	1,900	Gasoline	--
MW-4-2	07/27/90	8.0	<0.025	1.3	0.16	1.5	130	Gasoline	360
MW-5-2	07/27/90	8.0	<0.025	<0.025	0.029	0.049	<5		--
Current Ecology UST (3) Cleanup Guidelines			0.66	143	14	NC	200		200
Draft MTCA (4) Cleanup Guidelines			0.5	40	20	20	100	Gasoline	200
							200	Other Fuels	

Notes:

"ppm" indicates "parts per million"

"ND" indicates "not detected"; see laboratory data sheets in Appendix B for analyte detection limits.

"NC" indicates "no current cleanup guideline"

"--" indicates "not tested"

(1) B = benzene, E = ethylbenzene, T = toluene, X = total xylenes

(2) TPH = total petroleum hydrocarbons

(3) Current recommended Ecology soil cleanup guidelines for underground storage tank sites.

(4) Draft Model Toxics Control Act compliance cleanup levels for soil (July 18, 1990).

TABLE 2
**SUMMARY OF GROUND WATER QUALITY DATA;
BETX, TPH AND HYDROCARBON VAPOR CONCENTRATIONS**

Well Number	Date Sampled	BETX (1) (EPA Method 8020) (ppb)				TPH (EPA Method 418.1) (ppm)	Hydrocarbon Vapor Concentrations (2) (ppm)
		B	E	T	X		
MW-1	08/03/90	19	<0.5	<0.5	<0.5	<1	200
MW-1(3)	08/24/90	<50	<50	<50	<50	--	
MW-2(3)	08/03/90	<2,500	<2,500	<2,500	<2,500	<1	260
MW-2a(3)(4)	08/24/90	<5,000	<5,000	<5,000	<5,000	--	
MW-2b(3)(4)	08/24/90	<2,500	<2,500	<2,500	<2,500	--	
MW-3	08/03/90	1,900	2,500	3,900	11,000	6	>10,000
MW-3	08/24/90	2,100	2,000	2,900	10,000	--	
MW-4	08/03/90	2.8	18	16	70	11	5,800
MW-4	08/24/90	2,800	410	6,100	2,000	--	
MW-5	08/03/90	960	290	650	1,100	1	9,800
MW-5	08/24/90	3,600	1,400	5,300	5,400	--	

Current Ecology UST Guidelines(4)	66	1,400	14,300	NC	15	NC
Draft MTCA Guidelines (5)	5	20	40	20	1	NC
Drinking Water Guidelines (6)	5	700	2,000	10,000	NC	NC

Notes:

"ppb" indicates "parts per billion"; "ppm" indicates "parts per million"

"ND" indicates "not detected"; see laboratory data sheets in Appendix B for analyte detection limits.

"NC" indicates "no current cleanup guideline"

(1) B = benzene, E = ethylbenzene, T = toluene, X = total xylenes.

(2) Hydrocarbon vapor concentrations were measured in the well casings using a Bacharach TLV Sniffer calibrated to hexane (110 ppm - 1% LEL).

(3) Interference caused by the high concentration of tetrachloroethene in the sample resulted in high BETX detection limits.

(4) Sample MW-2a was obtained prior to well purging. Sample MW-2b was obtained after purging 3 well volumes.

(5) Draft Model Toxics Control Act compliance cleanup levels for ground water (July 18, 1990).

(6) Current or proposed maximum contaminant levels for drinking water.

TABLE 3
SUMMARY OF GROUND WATER QUALITY DATA;
PURGEABLE HALOCARBONS/AROMATICS
(EPA METHOD 8010/8020)

Compound (a)	Date Sampled	Concentration (ppb)					Cleanup Guidelines	
		MW-1	MW-2	MW-3	MW-4	MW-5	Draft MTCA (b)	Drinking Water (c)
Chloroform	08/03/90	--	<1,000	--	8.3	--	NC	0.1
	08/24/90	<20	<1000 (<2000*)	<200	<20	<20		
1,2-Dichlorobenzene	08/03/90	--	<2,500	--	1.8	--	NC	600
	08/24/90	<50	<2500 (<5000*)	<500	<50	<50		
1,4-Dichlorobenzene	08/03/90	--	<2,500	--	42(d)	--	NC	75
	08/24/90	<50	<2500 (<5000*)	<500	<50	<50		
1,1-Dichloroethane	08/03/90	--	<1,000	--	23	--	NC	NC
	08/24/90	<20	<1000 (<2000*)	<200	53	<20		
1,1-Dichloroethene	08/03/90	--	<1,000	--	7.9	--	NC	7
	08/24/90	<20	<1000 (<2000*)	<200	<20	<20		
cis-1,2-Dichloroethene	08/03/90	--	<1,000	--	<0.2	--	NC	70
	08/24/90	<20	<1000 (<2000*)	<200	<20	320		
Methylene Chloride	08/03/90	--	<10,000	--	15	--	5	NC
	08/24/90	<10,000	<10,000 (<20,000*)	<2,000	<1,000	<200		
Tetrachloroethene	08/03/90	--	98,000	--	170	--	5	5
	08/24/90	5,700	80,000 (89,000*)	<200	180	68		
1,1,1-Trichloroethane	08/03/90	--	<1,000	--	200	--	200	200
	08/24/90	<20	<1000 (<2000*)	<200	66	<20		
Trichloroethene	08/03/90	--	<1,000	--	<0.2	--	5	5
	08/24/90	23	<1000 (<2000*)	<200	<20	59		

Notes:

"ppb" indicates "parts per billion"

"NC" indicates "no current cleanup guideline"

Interference caused by the high concentration of tetrachloroethene in some samples resulted in high detection limits for other compounds.

* Two ground water samples were collected from MW-2 on August 24, 1990. The parentheses indicate that the sample was obtained prior to purging the well.

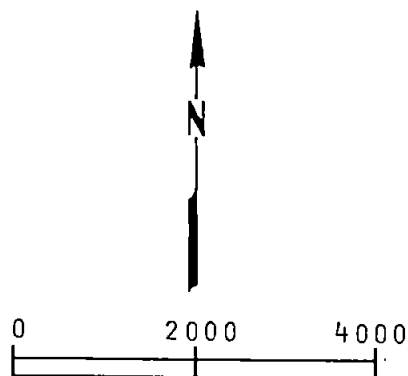
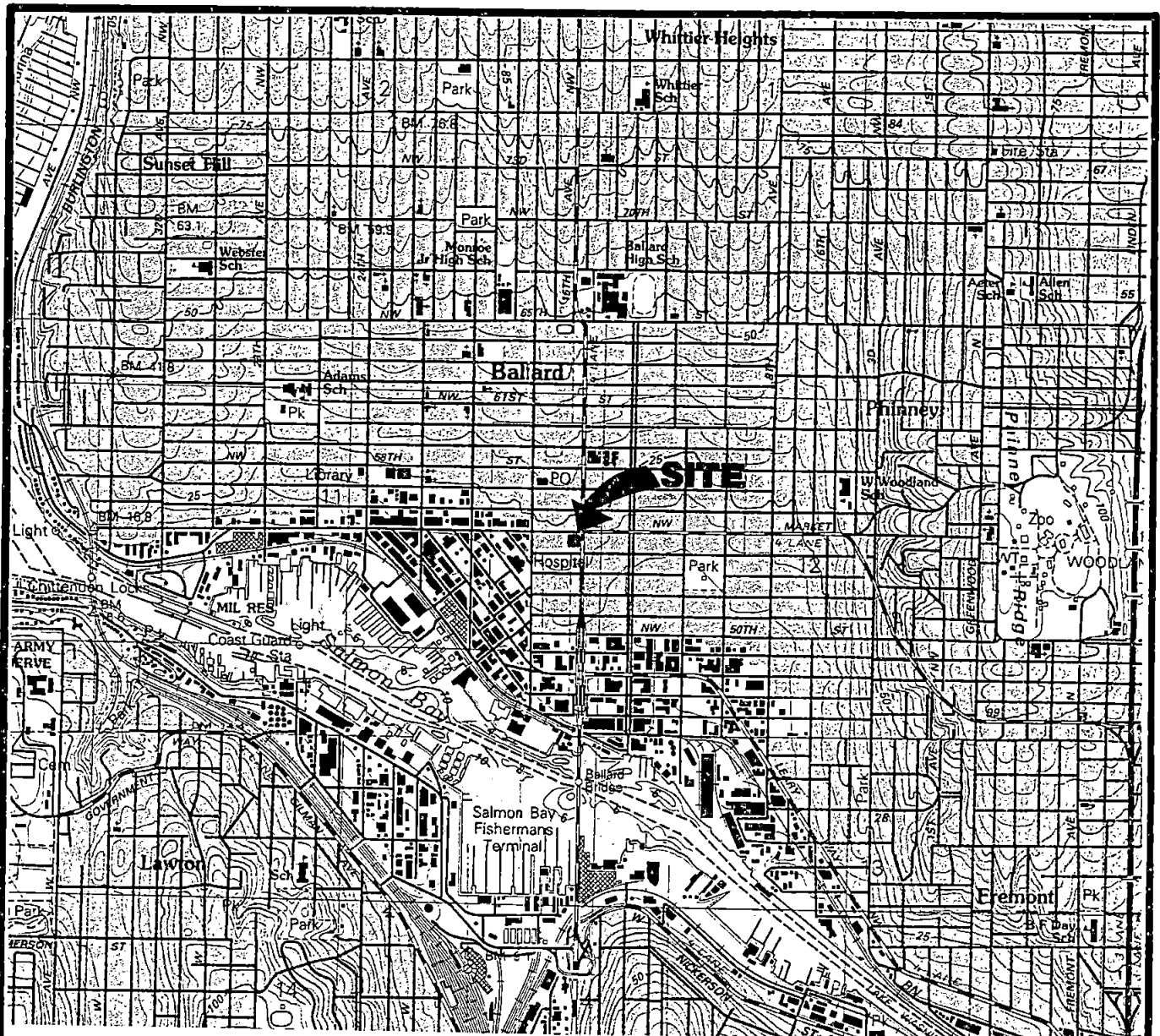
(a) Compounds not included in this list were not detected; see laboratory data sheets in Appendix B for a complete list of compounds tested for and their detection limits.

(b) Draft Model Toxics Control Act compliance cleanup levels for ground water (July 18, 1990).

(c) Current or proposed maximum contaminant levels for drinking water.

(d) Estimated value

161-270-4 SK:BDH 8.10.90



SCALE IN FEET
CONTOUR INTERVAL = 5 METERS

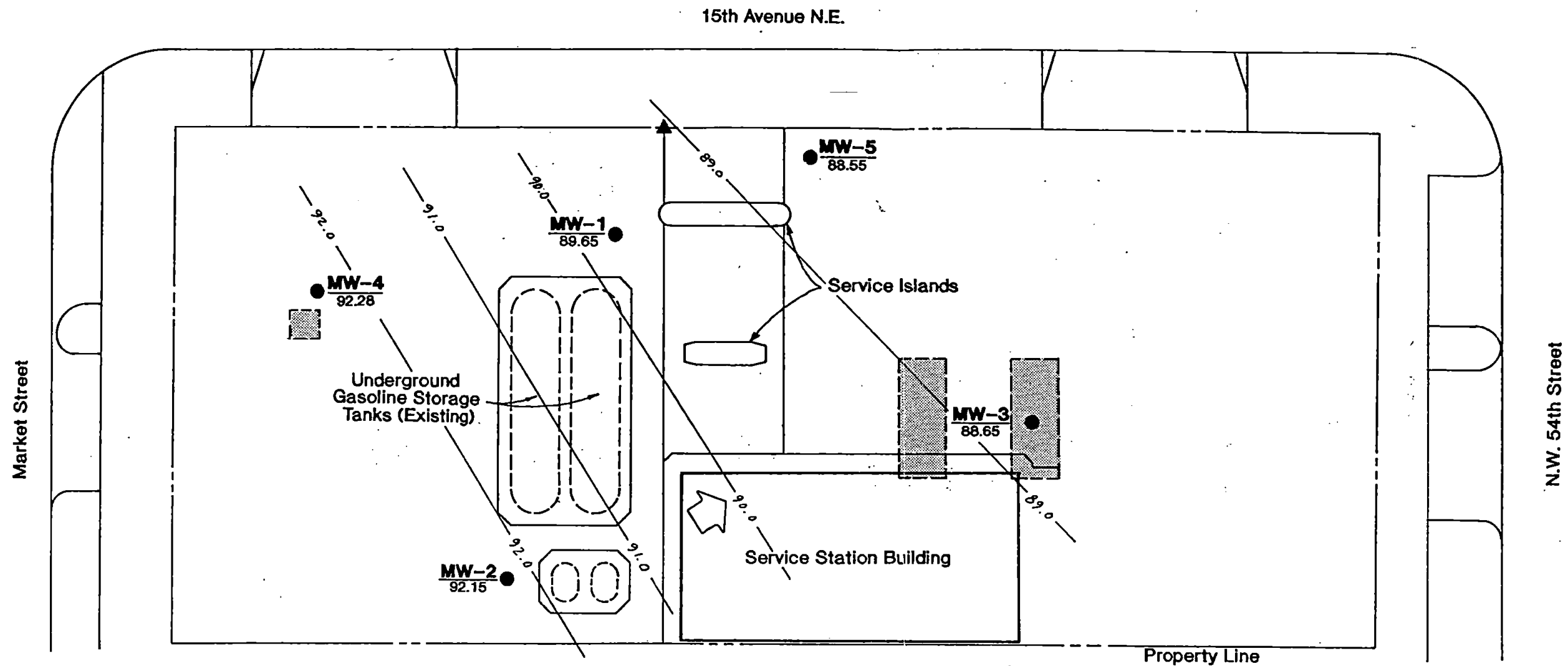
REFERENCE: U.S.G.S. 7.5 X 15' TOPOGRAPHIC QUADRANGLE MAP ENTITLED
"SEATTLE NORTH, WASH.", DATED 1983.

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VICINITY MAP

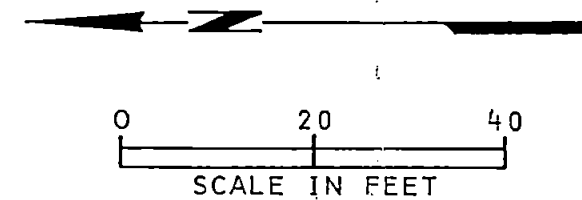
FIGURE 1

0161-270-BO4 SAK:BDH 8.14.90



EXPLANATION:

- **MW-1** 89.65 MONITOR WELL LOCATION AND NUMBER
GROUND WATER ELEVATION MEASURED ON 8/24/90
- APPROXIMATE LOCATION OF FORMER UNDERGROUND STORAGE TANKS
- ▲ BENCHMARK ON N.E. CORNER OF CATCH BASIN
ASSUMED ELEVATION OF 100.00 FEET
- GENERAL DIRECTION OF GROUND WATER FLOW
- 92.0 — GROUND WATER CONTOUR BASED ON 8/24/90 MEASUREMENTS



REFERENCE: DRAWING ENTITLED "GENERAL ARRANGEMENT, SERVICE STATION, 5479, N.W. 15TH ST. & MARKET AVE., SEATTLE, WASHINGTON", BY UNION OIL COMPANY OF CALIFORNIA, DATED 1/16/68.

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SITE PLAN

FIGURE 2

TABLE 1 (Page 1 of 2)
SUMMARY OF SOIL ANALYTICAL DATA
TEST PITS

Test Pit Number	Sample Number	Sample Depth (feet)	Volatile Aromatic Hydrocarbons ¹ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (WTPH-D) (mg/kg)	Heavy Oil-range Hydrocarbons WTPH-D extended) (mg/kg)	Halogenated Volatile Organic Compounds ² (EPA Method 8010) (mg/kg)	Total Lead (EPA Method 6010) (mg/kg)
			B	E	T	X					
TP-1	TP-1-5	10.0	--	--	--	--	--	160	410	--	--
	TP-1-6	12.0	--	--	--	--	--	66	130	N.D.	7.2
	TP-1-7	14.0	--	--	--	--	--	40	82	N.D.	--
TP-2	TP-2-3	6.0	--	--	--	--	--	<11	<44	--	2.0
	TP-2-7	13.0	--	--	--	--	--	<11	<44	Tetrachloroethene 0.042	--
TP-3	TP-3-1	2.0	--	--	--	--	--	680	2,700	--	4.5
	TP-3-7	13.0	--	--	--	--	--	<12	<48	Tetrachloroethene 0.13	--
TP-4	TP-4-3	6.0	<0.55	10	3.4	41	1,200	--	--	--	--
	TP-4-6	12.0	0.93	16	6.2	71	1,600	--	--	N.D.	5.0
TP-5	TP-5-5	10.0	<0.027	1.3	0.14	4.9	190	--	--	--	5.1
	TP-5-7	13.0	0.39	5.3	1.1	9.3	660	--	--	N.D.	--
TP-6	TP-6-5	10.0	24	140	150	720	11,000	--	--	--	--
	TP-6-6	12.0	2.4	28	22	160	2,500	--	--	N.D.	4.2
TP-7	TP-7-5	10.0	<0.028	<0.028	<0.028	0.057	13	--	--	--	<1.8
	TP-7-6	12.0	<0.027	<0.027	<0.027	<0.027	<6	--	--	Tetrachloroethene 0.016	--
TP-8	TP-8-6	12.0	<0.028	<0.028	<0.028	<0.028	<6	--	--	N.D.	2.0
TP-9	TP-9-2	4.0	--	--	--	--	--	120	330	1,2-Dichlorobenzene 0.049 ³	20
TP-10	TP-10-1	10.5	<0.028	<0.028	<0.028	<0.028	<6	--	--	N.D.	--
TP-11	TP-11-1	6.0	<0.027	<0.027	<0.027	<0.027	<5	--	--	--	--
	TP-11-2	10.0	<0.027	<0.027	<0.027	<0.027	<5	--	--	Tetrachloroethene 0.017	--
TP-12	TP-12-6	12.0	--	--	--	--	--	<11	<44	Tetrachloroethene 0.14	--
MTCA Method A Cleanup Levels			0.5	20	40	20	100	200	200	Tetrachloroethene 0.5	250

Notes appear on page 2 of 2.

TABLE 1 (Page 2 of 2)

Test Pit Number	Sample Number	Sample Depth (feet)	Volatile Aromatic Hydrocarbons ¹ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (WTPH-D) (mg/kg)	Heavy Oil-range Hydrocarbons WTPH-D extended) (mg/kg)	Halogenated Volatile Organic Compounds ² (EPA Method 8010) (mg/kg)	Total Lead (EPA Method 6010) (mg/kg)
			B	E	T	X					
TP-13	TP-13-3	6.0	<0.028	<0.028	<0.028	<0.028	<6	--	--	--	1.9
	TP-13-5	10.0	<0.028	<0.028	0.041	<0.028	<6	--	--	N.D.	--
TP-14	TP-14-3	6.0	<0.027	<0.027	0.033	<0.027	<5	--	--	--	--
	TP-14-6	12.0	<0.029	0.27	0.11	1.5	27	--	--	Tetrachloroethene 0.066	<1.9
TP-15	TP-15-4	8.0	<0.027	<0.027	<0.027	0.029	<6	--	--	--	<1.8
	TP-15-7	12.0	<0.027	<0.027	0.033	0.054	<6	--	--	N.D.	--
TP-16	TP-16-6	10.0	.35	3.7	1.0	18	490	--	--	N.D.	--
TP-17	TP-17-3	7.0	--	--	--	--	--	290	<48	N.D.	95
TP-18	TP-18-5 ⁴	12.0	--	--	--	--	--	--	--	N.D.	--
MTCA Method A Cleanup Levels			0.5	20	40	20	100	200	200	Tetrachloroethene 0.5	250

Notes:

¹ B = benzene, E = ethylbenzene, T = toluene, X = total xylenes² Only those compounds detected are listed. Refer to laboratory reports, Appendix B, for list of all analytes tested and respective detection limits.³ A MTCA Method A soil cleanup level has not been established for 1,2-dichlorobenzene.⁴ Sample TP-18-5 was analyzed for WTPH-HCID. Petroleum hydrocarbons were not detected in this sample by the HCID analysis.

Analyses conducted by Analytical Technologies, Inc.

-- = not tested

N.D. = not detected

TABLE 2
SUMMARY OF PRODUCT ANALYTICAL DATA
PRE-UNOCAL USTs

Tank Number	Sample Number	Date Sampled	Fuel Hydrocarbons (EPA Method 8015, modified)			Halogenated Volatile Organic Compounds ¹ (EPA Method 8010) (mg/kg)
			Gasoline- range (mg/kg)	Diesel- range (mg/kg)	Heavy Oil- range (mg/kg)	
Tank #1	P-2	2/2/93	36,000	80,000	370,000	Tetrachloroethene 380
						Trichloroethene 21
						cis-1,2-Dichloroethen 40
Tank #2	P-3	2/2/93	10,000	130,000	500,000	Tetrachloroethene 2.1
	P-4	2/2/93	11,000	130,000	600,000	Tetrachloroethene 9.1
						Trichloroethene 6.6
Tank #3	P-5	2/2/93	29,000	99,000	630,000	Tetrachloroethene 91
						Trichloroethene 51
						1,2-Dichloroethane 0.24
						1,2-Dibromoethane 1.6

Notes:

¹Only those compounds detected are listed. Refer to laboratory reports in Appendix B for list of all analytes tested and detection limits.

Analyses conducted by Analytical Technologies, Inc.

Document ID: 161270L2.WK1

TABLE 3
SUMMARY OF SOIL ANALYTICAL DATA
PRE-UNOCAL UST AREA

Sample Number	Sample Depth (feet)	Date Sampled	Hydrocarbon Identification (WTPH-HCID)			Halogenated Volatile Organic Compounds (EPA Method 8010) ¹ (mg/kg)		Heavy Oil-range Hydrocarbons WTPH-418.1 (mg/kg)
			Gasoline-range (mg/kg)	Diesel-range (mg/kg)	Heavy Oil-range (mg/kg)			
S-1	8.0	02/02/93	<20	<50	<100	Tetrachloroethene 0.031		—
S-2	3.5	02/02/93	present	present	present	Tetrachloroethene 0.057 cis-1,2-Dichloroethene 0.20		—
S-3	8.0	02/02/93	<20	<50	present	N.D.		27
MTCA Method A Cleanup Levels			100	200	200	Tetrachloroethene 0.5		200

Notes:

¹Only those compounds detected are listed. Refer to laboratory reports in Appendix B for list of all analytes tested and detection limits.

Analyses conducted by Analytical Technologies, Inc.

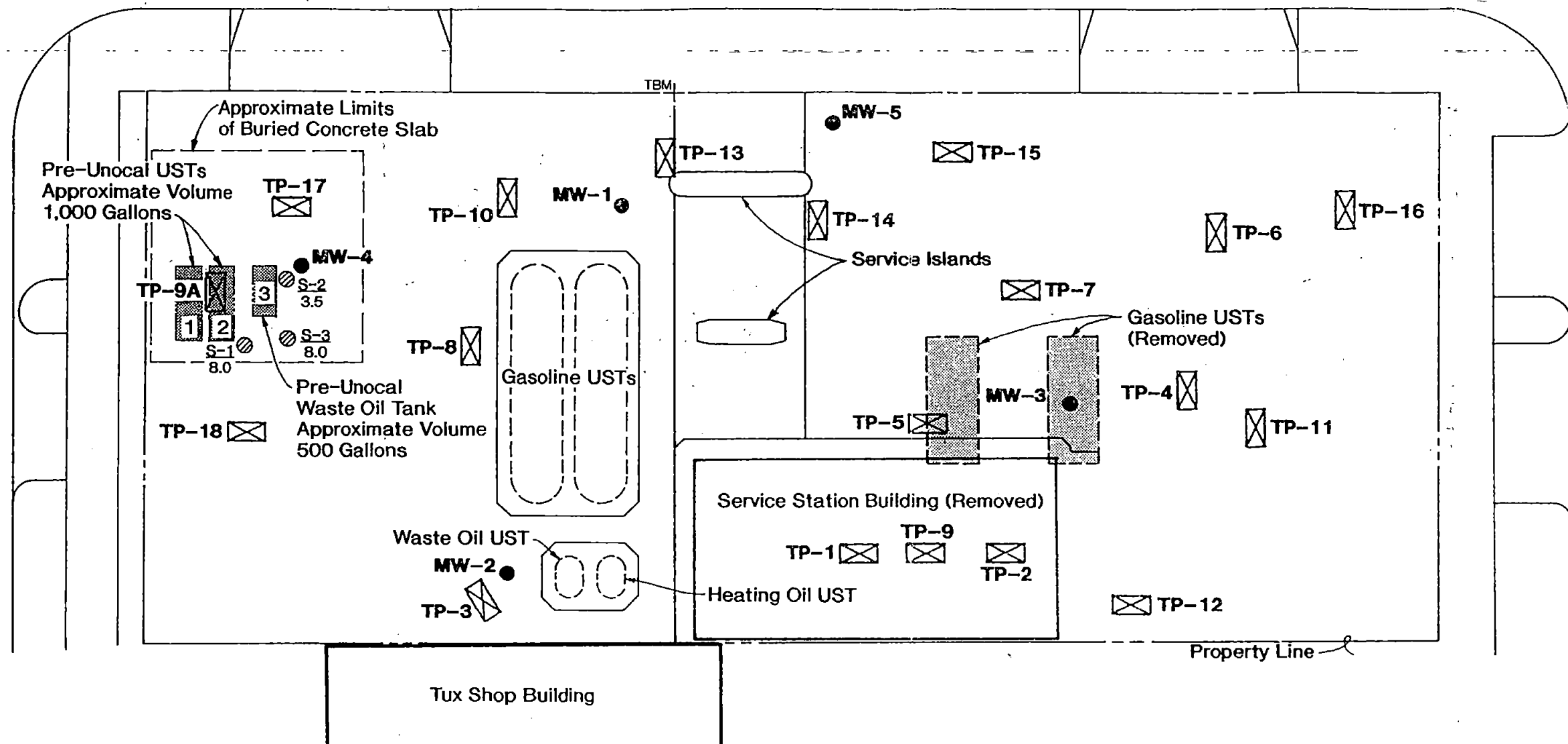
Document ID: 161270L3.WK1

0161-270-BO4 SAK:BDH 8.14.90 (2)
REV. TTF:BDH 03/18/92 (2)

N.W. MARKET STREET

15TH AVENUE N.W.

N.W. 54TH STREET



EXPLANATION:

● MW-1 UNOCAL MONITORING WELL (APPROXIMATE LOCATION)

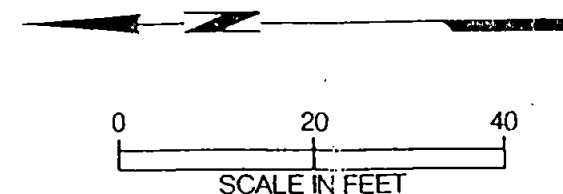
S-1 DISCRETE SOIL SAMPLE
8.0 DEPTH (IN FEET)

TBM TEMPORARY BENCHMARK ON N.E. CORNER OF CATCH BASIN;
ASSUMED ELEVATION OF 100.00 FEET

X TP-1 TEST PIT (APPROXIMATE LOCATION)

UST UNDERGROUND STORAGE TANK

Note: The locations of all features shown are approximate.



Reference: Drawing entitled "General Arrangement, Service Station 5479, N.W. 15th St. & Market Ave., Seattle, Washington," by Unocal, dated 01/16/68.

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SITE PLAN

FIGURE 1

TABLE 1
SUMMARY OF SOIL SAMPLE SCREENING RESULTS AND CHEMICAL ANALYTICAL DATA
PRE-UNOCAL UST EXCAVATION

Sample Number and Depth ¹ (feet)	Field Screening Results ²		Halogenated Volatile Organic Compounds ³ (mg/kg)	Hydrocarbon Identification ⁴ (mg/kg)			Total Petroleum Hydrocarbons (mg/kg)			Volatile Aromatic Hydrocarbons ⁶ (mg/kg)			
	Sheen	Headspace Vapors (ppm)		Gasoline-range	Diesel-range	Heavy Oil-range	Gasoline-range ⁵	Diesel-range ⁵	Heavy Oil-range ⁵	B	E	T	X
EX-1-8.5	HS	160	Not Detected	Present	Present	Present	630	660	6,600	0.039	1.1	0.17	8.0
EX-2-8.5	SS	<100	--	--	--	--	--	--	--	--	--	--	--
EX-3-8.5	HS	200	Tetrachloroethene 0.34	Present	Present	Present	330	15	<43	0.24	2.0	2.8	13
EX-4-8.5	SS	<100	Tetrachloroethene 0.19	<20	<50	<100	--	--	--	--	--	--	--
EX-5-8.5	SS	<100	Tetrachloroethene 0.035	<20	<50	<100	--	--	--	--	--	--	--
EX-6-8.5	SS	<100	Tetrachloroethene 0.086	<20	<50	<100	--	--	--	--	--	--	--
EX-7-8.5	MS	100	Not Detected	Present	Present	<100	160	230	<51	<0.032	0.11	<0.032	0.29
EX-8-5.2	SS	<100	Tetrachloroethene 0.045	<20	<50	<100	--	--	--	--	--	--	--
MTCA Method A Soil Cleanup Levels			Tetrachloroethene 0.5				100	200	200	0.5	20	40	20

Notes:

¹Sample depth is indicated by the last number in the sample designation. For example, sample EX-1-8.5 was collected at a depth at 8.5 feet. Samples EX-1 through EX-4 were collected on March 17, 1993. Samples EX-5 through EX-8 were collected on March 18, 1993.

²See Attachment A for a description of field screening methods. SS = slight sheen, MS = moderate sheen, HS = heavy sheen.

³By EPA Method 8010. Only the compounds detected are listed. Refer to laboratory reports in Attachment B for a list of all analytes tested and the respective detection limits.

⁴By Ecology Method WTPH-HCID.

⁵Gasoline-, diesel-, and heavy oil-range hydrocarbons by Ecology Methods WTPH-G, WTPH-D, and WTPH-418.1 modified, respectively.

⁶By EPA Method 8020. B = benzene, E = ethylbenzene, T = toluene, X = total xylenes

Analyses conducted by Analytical Technologies, Inc.

Shading indicates analytical results greater than MTCA Method A cleanup levels.

ppm = parts per million

mg/kg = milligrams per kilogram

-- = not tested

TABLE 2
SUMMARY OF SOIL SAMPLE SCREENING RESULTS AND CHEMICAL ANALYTICAL DATA
PRE-UNOCAL UST EXCAVATION SOIL STOCKPILE

Sample Number	Date Sampled	Field Screening Results ¹		Halogenated Volatile Organic Compounds ² (mg/kg)	Hydrocarbon Identification ³ (mg/kg)			Total Petroleum Hydrocarbons (mg/kg)	
		Sheen	Headspace Vapors (ppm)		Gasoline-range	Diesel-range	Heavy Oil-range	Diesel-range ⁴	Heavy Oil-range ⁴
SP-1	03/18/93	MS	<100	Tetrachloroethene 0.027	<20	<50	Present	—	170
SP-2	03/18/93	MS	<100	Tetrachloroethene 0.037	<20	Present	Present	65	340
SP-3	03/18/93	MS	<100	Tetrachloroethene 0.030	<20	<50	Present	—	130
MTCA Method A Soil Cleanup Levels				Tetrachloroethene 0.5				200	200

Notes:

¹See Attachment A for a description of field screening methods. SS = slight sheen, MS = moderate sheen, HS = heavy sheen.

²By EPA Method 8010. Only the compounds detected are listed. Refer to laboratory reports in Attachment B for a list of all analytes tested and the respective detection limits.

³By Ecology Method WTPH-HCID.

⁴Diesel- and heavy oil-range hydrocarbons by Ecology Methods WTPH-D and WTPH-418.1 modified, respectively.

Analyses conducted by Analytical Technologies, Inc.

Shading indicates analytical results greater than MTCA Method A cleanup levels.

ppm = parts per million

mg/kg = milligrams per kilogram

— = not tested

Rev. DDK:LLD 3/24/93
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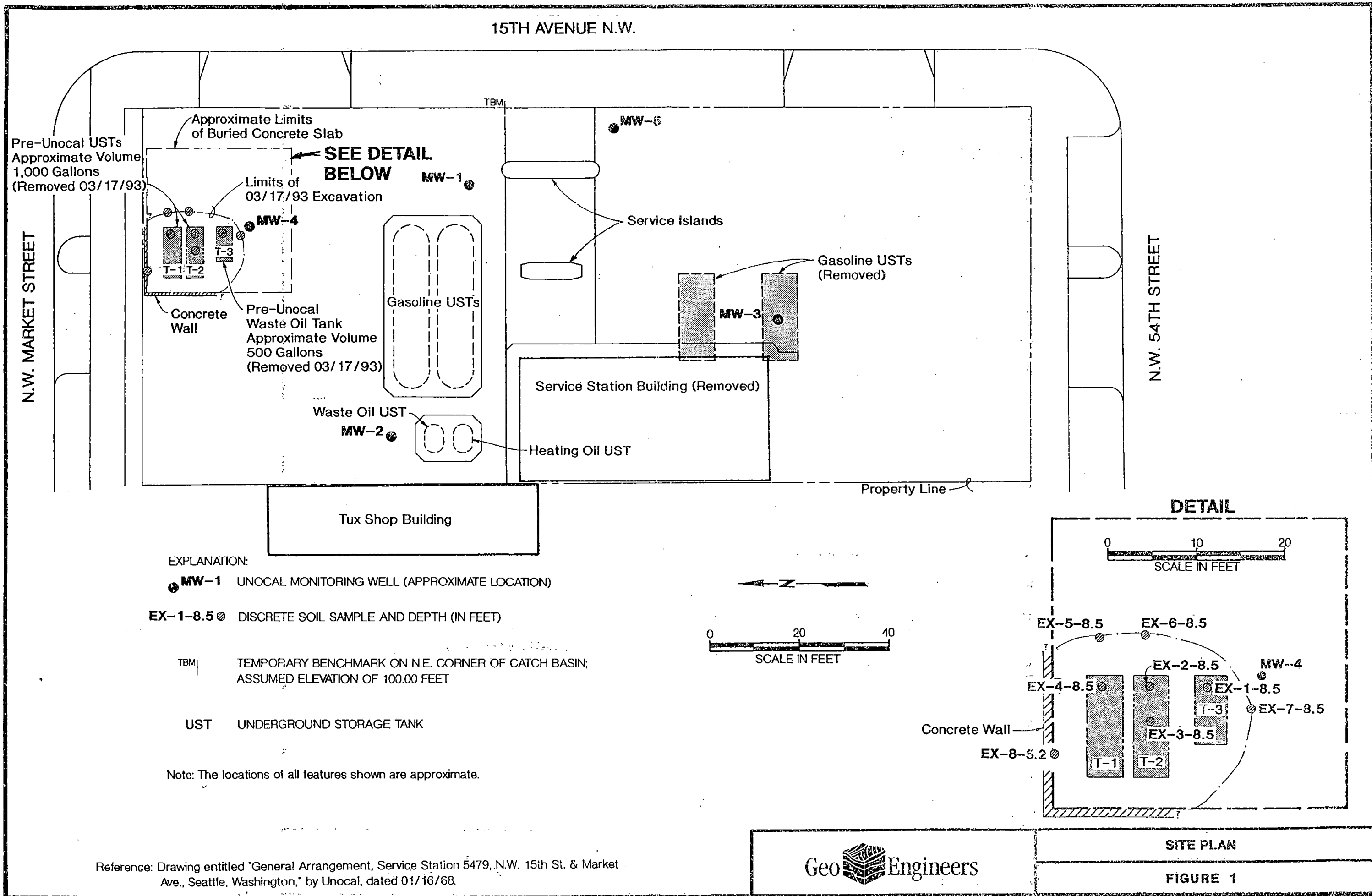


TABLE 1 (Page 1 of 2)
SUMMARY OF GROUND WATER ELEVATIONS AND
COMBUSTIBLE VAPOR CONCENTRATIONS
FORMER UNOCAL SERVICE STATION 5479

Monitoring Well ¹	Date Measured	Casing Rim Elevation ² (feet)	Ground Water Elevation ² (feet)	Combustible Vapor Concentration ³ (ppm)	Free Product Thickness (feet)
MW-1	08/03/90	100.65	90.05	<400	-
	08/24/90		89.65	<400	-
	03/10/92		89.70	>10,000	-
	06/26/92		88.89	>10,000	-
	12/10/92		88.61	>10,000	-
	01/23/93		89.08	1,000	-
	09/16/93		88.38	3,800	-
MW-2	08/03/90	102.54	92.40	<400	-
	08/24/90		92.14	<400	-
	03/10/92		91.62	<400	-
	06/26/92		90.87	1,800	-
	12/10/92		90.48	<400	-
	01/23/93		90.99	<400	-
	09/16/93		91.78	<400	-
MW-3	08/03/90	100.47	89.06	>10,000	-
	08/24/90		88.63	>10,000	-
	03/10/92		88.53	10,000	-
	06/26/92		87.90	>10,000	-
	12/10/92		87.15	>10,000	-
	01/23/93		87.81	>10,000	-
	09/16/93		87.74 ⁴	5,400	1.17
MW-4	08/03/90	102.34	95.09	5,800	-
	08/24/90		92.25	>10,000	-
	03/10/92		91.33	1,000	-
	06/26/92		90.52	2,900	-
	12/10/92		-	<400	-
	01/23/93		90.78	<400	-
	09/16/93		90.45 ⁴	<400	0.04
MW-5	08/03/90	99.33	88.96	9,800	-
	08/24/90		88.55	7,800	-
	03/10/92		88.66	>10,000	-
	06/26/92		87.92	>10,000	-
	12/10/92		87.51	>10,000	-
	01/23/93		88.00 ⁴	>10,000	0.04
	09/16/93		87.61 ⁴	6,200	0.83

Notes appear on Page 2 of 2.

TABLE 1 (Page 2 of 2)

Monitoring Well ¹	Date Measured	Casing Rim Elevation ² (feet)	Ground Water Elevation ² (feet)	Combustible Vapor Concentration ³ (ppm)	Free Product Thickness (feet)
MW-1A	09/27/94	64.05	50.85	<400	—
MW-2A	09/27/94	66.55	54.06	<400	—
MW-3A	09/27/94	64.79	50.05	<400	—
MW-4A	09/27/94	66.90	54.17	<400	—
MW-5A	09/27/94	62.72	49.72	<400	—

Notes:

¹Approximate monitoring well locations are shown in Figure 2.

²Elevations obtained prior to September 1994 are measured relative to the temporary benchmark at the northeast corner of a catch basin formerly located in the eastern portion of the site. The temporary benchmark had an assumed elevation of 100.00 feet. Elevations reported in September 1994 were measured relative to mean sea level based on a survey completed by Charles A. Gove and Associates.

³Measured with a Bacharach TLV Sniffer calibrated to hexane. Field procedures are described in Appendix C.

⁴Ground water elevation corrected for the presence of free product on the water surface. The specific gravity of the product is assumed to be 0.85.

ppm = parts per million; "—" = not present

TABLE 2 (Page 1 of 3)
SUMMARY OF COMBUSTIBLE VAPOR CONCENTRATIONS AND
GROUND WATER CHEMICAL ANALYTICAL DATA
FORMER UNOCAL SERVICE STATION 5479

Sample Source	Date Sampled	Well Casing Vapor Concentrations (ppm)	Volatile Aromatic Hydrocarbons ¹ (EPA Method 8020 or 8240) (µg/l)				Total Petroleum Hydrocarbons			Halogenated Volatile Organic Compounds ² (EPA Method 8240 or 8010) (µg/l)			
			B	E	T	X	Gasoline-range (Ecology Method WTPH-G) (mg/l)	Diesel-range (Ecology Method WTPH-D) (mg/l)	Heavy oil-range (Ecology Method WTPH-D ext) (mg/l)	PCE	TCE	DCE	
MW-1	08/03/90 ³	<400	19	<0.5	<0.5	0.5	<1 ⁴			—	—	—	
	08/24/90 ³	<400	<50	<50	<50	<50	—	—	—	5,700	23	<20	
	03/10/92 ⁵	>10,000	540	22	85	31	3.1	<0.50	—	47	56	220	
	06/26/92 ⁶	>10,000	140	8	17	4	0.17	—	—	74 ⁷	28	260	
	12/10/92 ⁶	>10,000	17	<1	<1	<1	0.1	—	—	37	14	37	
MW-2	08/03/90 ³	<400	<2,500	<2,500	<2,500	<2,500	<1 ⁴			98,000	<1,000	<1,000	
	08/24/90 ³	<400	<5,000	<5,000	<5,000	<5,000	—	—	—	89,000	<2,000	<2,000	
	03/10/92 ⁵	<400	<0.5	<0.5	<0.5	<0.5	2.5	<0.50	—	5,300	17	69	
	06/26/92 ⁶	1,800	<5	<5	<5	<5	2.9	—	—	6,400	14	52	
	Duplicate	06/26/92 ⁶	—	<1	<1	<1	2	2.7	—	—	5,600	14	53
Duplicate	12/10/92 ⁶	<400	<5	<5	<5	<5	1.2	—	—	3,700	10	54	
	12/10/92 ⁶	—	<5	<5	<5	<5	1.2	—	—	4,100	10	53	
MW-3	08/03/90 ³	>10,000	1,900	2,500	3,900	11,000	6 ⁴			—	—	—	
	08/24/90 ³	>10,000	2,100	2,000	2,900	10,000	—	—	—	<200	<200	<200	
	03/10/92 ⁵	10,000	900	890	630	4,200	19	12	—	<50	<50	190	
	06/26/92 ⁶	>10,000	1,200	1,200	1,700	6,000	30	—	—	11	<5	220	
	12/10/92 ⁶	>10,000	990	520	950	5,200	32	—	—	<5	<5	200	
MW-4	08/03/90 ³	5,800	2.8	18	16	70	11 ⁴			170 ¹⁰	<0.2	<0.2	
	08/24/90 ³	>10,000	2,800	410	6,100	2,200	—	—	—	180 ¹¹	<20	<20	
	03/10/92 ⁵	1,000	69	130	5.7	220	2.8	11	—	<5.0	<5.0	<5.0	
	Duplicate	03/10/92 ⁵	—	66	130	4.9	220	3.1	—	—	4.2 ¹²	<2.5	<2.5
	06/26/92 ⁶	2,900	41	41	3	87	1.6	—	—	11 ¹³	2	<1	
Duplicate	12/10/92 ⁶	<400	2	<1	<1	14	0.6	—	—	2	<1	<1	
	MTCA Method A Cleanup Levels			5.0	30	40	20	1.0 ⁸			5.0	5.0	NA ⁹

Notes appear on Page 3 of 3

TABLE 2 (Page 2 of 3)

Sample Source	Date Sampled	Well Casing Vapor Concentrations (ppm)	Volatile Aromatic Hydrocarbons ¹ (EPA Method 8020 or 8240) (µg/l)				Total Petroleum Hydrocarbons			Halogenated Volatile Organic Compounds ² (EPA Method 8240 or 8010) (µg/l)		
			B	E	T	X	Gasoline-range (Ecology Method WTPH-G) (mg/l)	Diesel-range (Ecology Method WTPH-D) (mg/l)	Heavy oil-range (Ecology Method WTPH-D ext) (mg/l)	PCE	TCE	DCE
MW-5	08/03/90 ³	9,800	960	290	650	1,100	1 ⁴			-	-	-
	08/24/90 ³	7,800	3,600	1,400	5,300	5,400	-	-	-	68	59	320
	03/10/92 ⁵	>10,000	260	49	20	96	1.8	2.1	-	60 ¹⁴	20	190
	06/26/92 ⁶	>10,000	2,700	370	1,700	1,600	11	-	-	19	6	180
	12/10/92 ⁶	>10,000	1,500	200	1,400	1,400	12	-	-	150	52	170
MW-1A	09/27/94 ⁵	<400	71	<0.50	0.82	1.5	0.15	0.63	<0.75	200	89	170
MW-2A	09/27/94 ⁵	<400	<0.50	<0.50	<0.50	<1.0	0.34	<0.25	<0.75	640	4.4	16
MW-3A	09/27/94 ⁵	<400	46	30	5.9	650	4.6	0.44	<0.75	300	93	210
MW-4A	09/27/94 ⁵	<400	<0.50	<0.50	<0.50	<1.0	<0.05	0.34	<0.75	<1.0 ¹⁵	<1.0	<1.0
MW-5A	09/27/94 ⁵	<400	3.0	<0.50	<0.50	<1.0	<0.05	0.32	<0.75	12	4.7	56
MTCA Method A Cleanup Levels			5.0	30	40	20	1.0 ⁸			5.0	5.0	NA ⁹

Notes appear on Page 3 of 3

TABLE 2 (Page 3 of 3)

Notes:

¹B = benzene, E = ethylbenzene, T = toluene, X = total xylenes

²See Appendix B for a complete list of analytes and detection limits. PCE = tetrachloroethene, TCE = trichloroethene, DCE = 1,2-dichloroethene. DCE concentrations in samples analyzed by Pacific Northwest Environmental Laboratory in December 1992 represent total (cis- and trans- polymers) DCE. All other sample results reported represent cis-1,2-dichloroethene only.

³Sample analyzed by Analytical Technologies, Inc. of Renton, Washington.

⁴Sample analyzed for total petroleum hydrocarbons by EPA Method 418.1.

⁵Sample analyzed by North Creek Analytical of Bothell, Washington.

⁶Sample analyzed by Pacific Northwest Environmental Laboratory, Inc. of Redmond, Washington.

⁷1,1-dichloroethane (2µg/l), and 2-hexane (11µg/l) also were detected in this sample at concentrations less than applicable cleanup levels.

⁸The MTCA Method A cleanup level for the sum of gasoline-, diesel- and heavy oil-range hydrocarbons is 1.0 mg/l when concentrations are quantified using gas chromatography methods.

⁹The MTCA Method B cleanup level for DCE is 80µg/l. The EPA drinking water MCL is 70µg/l.

¹⁰Chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, 1,1-dichloroethene, methylene chloride, and 1,1,1-trichloroethane also were detected in this sample at concentration less than applicable cleanup levels.

¹¹1,1-dichloroethane and 1,1,1-trichloroethane also were detected in this sample at concentrations less than applicable cleanup levels.

¹²1,1-dichloroethane also was detected in this sample at concentrations less than applicable cleanup levels.

¹³1,1-dichloroethane also was detected in this sample at a concentration less than the applicable cleanup level.

¹⁴1,2-dichloroethane also was detected at a concentration less than the applicable cleanup level.

¹⁵Chloroform also was detected in this sample at a concentration less than the applicable cleanup level.

Shading indicates a concentration greater than the MTCA Method A or other applicable cleanup level.

ppm = parts per million; µg/l = micrograms per liter; mg/l = milligrams per liter; ND = not detected; NA = not applicable; "-" = not tested

TABLE 3
SUMMARY OF CHEMICAL ANALYTICAL DATA
PRODUCT SAMPLES
FORMER UNOCAL SERVICE STATION 5479

Sample Number	Date Sampled	Fuel Hydrocarbons (EPA Method 8015, modified)		Halogenated Volatile Organic Compounds ¹ (EPA Method 8010) (mg/kg)
		Gasoline- range (mg/kg)	Diesel- range (mg/kg)	
MW-3	09/16/93	990,000	<66,000	Tetrachloroethene 8.1
				cis-1,2-Dichloroethene 11
				1,2-Dichloroethane 2.6
				1,4-Dichlorobezene 5.1
				1,2-Dichlorobenzene 36
MW-4	09/16/93	110,000	21,000	ND
MW-5	09/16/93	950,000	110,000	Tetrachloroethene 52
				Trichloroethene 14
				cis-1,2-Dichloroethene 14

Notes:

¹Only those compounds detected are listed.

Analyses conducted by Analytical Technologies, Inc. of Renton, Washington.

mg/kg = milligrams per kilogram

ND = not detected

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TABLE 4 (Page 1 of 3)
SUMMARY OF SOIL ANALYTICAL DATA
GASOLINE UST AND SERVICE ISLAND EXCAVATION
FORMER UNOCAL SERVICE STATION 5479

Sample Number ¹	Sample Depth (feet)	Date Sampled	Field Screening Results ²		Volatile Aromatic Hydrocarbons ³ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (Ecology Method WTPH-D) (mg/kg)	Heavy Oil-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X			
G-1-13.0	13.0	09/16/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-2-12.5	12.5	09/16/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-3-9.0	9.0	09/17/93	<100	NS	<0.029	<0.029	<0.029	<0.029	<6	<11	<46
G-4-9.5	9.5	09/17/93	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	<11	<45
G-5-12.0	12.0	09/17/93	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	<11	<44
G-6-8.5	8.5	09/17/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	<11	<44
G-7-8.0	8.0	09/17/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-8-9.0	9.0	09/17/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-9-8.0	8.0	09/17/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-10-8.0	8.0	09/17/93	<100	SS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-11-10.5	10.5	09/21/93	<100	NS	<0.029	<0.029	<0.029	<0.029	<6	-	-
G-12-6.0	6.0	09/21/93	<100	SS	<0.027	<0.027	<0.027	0.43	33	-	-
G-14-9.0	9.0	09/21/93	<100	NS	<0.027	<0.027	<0.027	0.038	<6	-	-
G-15-9.0	9.0	09/21/93	120	SS	<0.028	<0.028	0.039	0.084	<6	-	-
G-16-10.0	10.0	09/21/93	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-17-13.0	13.0	09/27/93	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-18-10.5	10.5	09/27/93	180	NS	<0.028	<0.028	0.072	0.044	<6	-	-
G-19-11.0	11.0	09/27/93	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	<11	<45
G-20-11.0	11.0	09/27/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-21-13.0	13.0	09/27/93	<100	NS	<0.027	<0.027	0.057	<0.027	<5	-	-
MTCA Method A Cleanup Levels					0.5	20	40	20	100	200	200

Notes appear on page 3 of 3.

TABLE 4 (Page 2 of 3)

Sample Number ¹	Sample Depth (feet)	Date Sampled	Field Screening Results ²		Volatile Aromatic Hydrocarbons ³ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (Ecology Method WTPH-D) (mg/kg)	Heavy Oil-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X			
G-22-13.0	13.0	09/29/93	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-23-13.0	13.0	09/29/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-24-13.0	13.0	09/29/93	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-25-11.0	11.0	09/27/93	1,000	MS	3.3	31	67	160	1,600	-	-
G-26-12.5	12.5	09/30/93	<100	SS	-	-	-	-	-	<11	<44
W-1-22.0	22.0	09/17/93	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-27-12.0	12.0	08/04/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-28-21.0	21.0	08/08/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-29-12.5	12.5	08/08/94	<100	NS	<0.028	0.029	<0.028	0.055	<6	-	-
G-30-6.0	6.0	08/08/94	<100	SS	<0.027	<0.027	<0.027	<0.027	<6	-	-
G-31-6.0	6.0	08/08/94	110	SS	<0.027	<0.027	<0.027	<0.027	<6	-	-
G-32-14.0	14.0	08/09/94	<100	SS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-33-14.0	14.0	08/09/94	<100	SS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-34-12.0	12.0	08/10/94	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-35-11.0	11.0	08/10/94	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-36-13.0	13.0	08/10/94	110	NS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-37-14.0	14.0	08/10/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	-	-
G-38-14.0	14.0	08/11/94	<100	NS	<0.029	<0.029	<0.029	<0.029	<6	-	-
G-39-13.0	13.0	08/12/94	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	-	-
G-40-13.0	13.0	08/12/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	-	-
MTCA Method A Cleanup Levels					0.5	20	40	20	100	200	200

Notes appear on page 3 of 3.

TABLE 4 (Page 3 of 3)

Sample Number ¹	Sample Depth (feet)	Date Sampled	Field Screening Results ²		Volatile Aromatic Hydrocarbons ³ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (Ecology Method WTPH-D) (mg/kg)	Heavy Oil-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X			
G-42-14.0	14.0	08/12/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-43-10.0 ⁴	10.0	08/12/94	<100	NS	<0.028	<0.028	<0.028	<0.028	—	—	—
G-44-14.0	14.0	08/23/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-45-12.0	12.0	08/23/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	—	—
G-46-13.0	13.0	08/24/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-47-14.0	14.0	08/24/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	—	—
G-48-13.0	13.0	08/24/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-49-15.0	15.0	08/24/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-50-15.0	15.0	08/25/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-51-13.5	13.5	08/25/94	>10,000	HS	0.89	10	4.2	58	1,300	—	—
G-52-13.0	13.0	08/25/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
G-53-12.0	12.0	08/25/94	<100	NS	<0.029	<0.029	<0.029	<0.029	<6	—	—
G-54-12.0	12.0	08/25/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	—	—
MTCA Method A Cleanup Levels					0.5	20	40	20	100	200	200

Notes:

¹The sample number indicates the source, order and depth of the sample. For example, G-1-13.0 indicates the first sample collected from the gasoline UST excavation and the sample was obtained from a depth of 13.0 feet below ground surface.

²Headspace vapors were measured with a Bacharach TLV Sniffer calibrated to hexane. NS = no sheen, SS = slight sheen, MS = moderate sheen, and HS = heavy sheen. Field procedures are described in Appendix C.

³B = benzene, E = ethylbenzene, T = toluene, X = total xylenes

⁴Sample G-43-10.0 also was analyzed for HVOCs by EPA Method 8010, Purgeable Aromatic Compounds by EPA Method 8020, and Hydrocarbon Identification by Ecology Method WTPH-HCID. These compounds were not detected in sample G-43-10.0.

Shading indicates results greater than the MTCA Method A cleanup level.

Analyses conducted by Analytical Technologies, Inc.

“—” = not tested; ND = not detected; mg/kg = milligrams per kilogram; ppm = parts per million

TABLE 5
SUMMARY OF SOIL ANALYTICAL DATA
HEATING AND WASTE OIL UST EXCAVATION
FORMER UNOCAL SERVICE STATION 5479

Sample Number ¹	Date Sampled	Sample Depth (feet)	Field Screening Results ²		Diesel-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)	Heavy Oil-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)
			Headspace Vapors (ppm)	Sheen		
HW-1-7.5	09/20/93	7.5	<100	NS	<11	<44
HW-2-8	09/20/93	8.0	<100	NS	<11	<44
HW-3-5	09/20/93	5.0	<100	NS	<11	<43
HW-4-8	09/20/93	8.0	<100	NS	<11	<43
HW-5-5	09/20/93	5.0	<100	NS	<11	<43
MTCA Method A Cleanup Levels					200	200

Notes:

¹The sample number indicates the source, order and depth of the sample. For example, HW-1-7.5 indicates the first sample collected from the heating and waste oil UST excavation and the sample was obtained from a depth of 7.5 feet below ground surface.

²Headspace vapors were measured with a Bacharach TLV Sniffer calibrated to hexane. NS = no sheen. Field procedures are described in Appendix C.

Analyses conducted by Analytical Technologies, Inc.

ppm = parts per million; mg/kg = milligrams per kilogram

TABLE 6
SUMMARY OF SOIL ANALYTICAL DATA
CONCRETE SLAB EXCAVATION
FORMER UNOCAL SERVICE STATION 5479

Sample Number ¹	Date Sampled	Sample Depth (feet)	Field Screening Results ²		Volatile Aromatic Hydrocarbons ³ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (Ecology Method WTPH-D) (mg/kg)	Heavy Oil-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)	Halogenated Volatile Organic Compounds ⁴ (EPA Method 8010) (mg/kg)
			Headspace Vapors (ppm)	Sheen	B	E	T	X				
CS-1-8.5	09/28/93	8.5	110	SS	–	–	–	–	–	<11	<43	ND
CS-2-8.0 ⁵	09/28/93	8.0	2,400	MS	<0.55	<0.55	0.92	13.0	2,500	820	58	ND
CS-3-12.0	09/29/93	12.0	<100	NS	<0.030	<0.030	<0.030	<0.030	<6	–	–	–
CS-4-8.5	09/29/93	8.5	<100	NS	–	–	–	–	<5	<11	<43	ND
CS-5-12.5	09/29/93	12.5	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	–	–	–
CS-6-9.0	09/29/93	9.0	<100	NS	<0.029	<0.029	<0.029	<0.029	<6	–	–	–
CS-7-12.0	09/29/93	12.0	<100	SS	<0.028	<0.028	<0.028	<0.028	<6	–	–	–
CS-8-11.0	09/29/93	11.0	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	–	–	–
CS-9-12.0	09/29/93	12.0	300	NS	<0.027	<0.027	<0.027	<0.027	<5	–	–	–
CS-10-12.5	09/29/93	12.5	120	NS	<0.027	<0.027	<0.027	<0.027	<5	–	–	–
CS-11-12.0	09/29/93	12.0	> 10,000	MS	<0.028	0.43	0.092	0.95	190	–	–	ND
CS-12-12.0	09/29/93	12.0	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	–	–	–
CS-13-12.5	09/29/93	12.5	<100	SS	<0.027	<0.027	<0.027	<0.027	<5	–	–	–
MTCA Method A Cleanup Levels					0.5	20	40	20	100	200	200	Tetrachloroethene 0.5

Notes:

- ¹The sample number indicates the source, order and depth of the sample. For example, CS-1-8.5 indicates the first sample collected from the concrete slab excavation and the sample was obtained from a depth of 8.5 feet below ground surface.
- ²Headspace vapors were measured with a Bacharach TLV Sniffer calibrated to hexano. NS = no sheen, SS = slight sheen, and MS = moderate sheen. Field procedures are described in Appendix C.
- ³B = benzene, E = ethylbenzene, T = toluene, X = total xylenes
- ⁴See lab reports in Appendix B for a complete list of analytes and detection limits
- ⁵Additional soil was removed to a depth of 12.5 feet in the vicinity of sample CS-2-8.0. Petroleum-related soil contamination either was not detected or was detected at concentrations less than MTCA Method A cleanup levels in samples obtained from the base of the excavation.
- Shading indicates results greater than the MTCA Method A cleanup level.
- Analyses conducted by Analytical Technologies, Inc. of Renton, Washington.
- ppm = parts per million; mg/kg = milligrams per kilogram; "--" = not tested; ND = not detected

TABLE 7
SUMMARY OF SOIL ANALYTICAL DATA
HYDRAULIC HOIST EXCAVATION
FORMER UNOCAL SERVICE STATION 5479

Sample Number ¹	Sample Depth (feet)	Date Sampled	Field Screening Results ²		Volatile Aromatic Hydrocarbons ³ (EPA Method 8020) (mg/kg)				Gasoline-range Hydrocarbons (Ecology Method WTPH-G) (mg/kg)	Diesel-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)	Heavy Oil-range Hydrocarbons (Ecology Method WTPH-D extended) (mg/kg)
			Headspace Vapors (ppm)	Sheen							
			B	E	T	X					
H-1-7.0 ⁴	7.0	08/01/94	280	SS	<0.027	<0.027	<0.027	<0.027	<6	—	—
H-2-10.0	10.0	08/01/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	<11	<45
H-3-12.5	12.5	08/01/94	<100	NS	<0.030	<0.030	<0.030	<0.030	<6	<12	<48
H-4-8.0	8.0	08/04/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	<11	<44
H-5-13.0	13.0	08/04/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	<11	<44
H-6-8.5	8.5	08/04/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	<11	<44
H-7-10.5	10.5	08/04/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	<11	<44
H-8-10.0	10.0	08/04/94	<100	NS	<0.028	<0.028	<0.028	<0.028	<6	<11	<45
H-9A-13.0	13.0	08/04/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	<11	<44
H-10-13.5	5.0	08/04/94	<100	SS	<0.027	<0.027	<0.027	<0.027	6	<11	<43
H-9B-13.0	13.0	08/11/94	<100	NS	<0.027	<0.027	<0.027	<0.027	<5	<11	<43
MTCA Method A Cleanup Levels					0.5	20	40	20	100	200	200

Notes:

¹The sample number indicates the source, order and depth of the sample. For example, H-1-7.0 indicates the first sample collected from the hydraulic hoist excavation and the sample was obtained from a depth of 7.0 feet below ground surface.

²Headspace vapors were measured with a Bacharach TLV Sniffer calibrated to hexane. NS = no sheen, SS = slight sheen. Field procedures are described in Appendix C.

³B = benzene, E = ethylbenzene, T = toluene, X = total xylenes

⁴Sample H-1-7.0 also was analyzed by WTPH-HCID. Gasoline-range hydrocarbons were qualitatively identified in this sample.

Analyses conducted by Analytical Technologies, Inc. of Renton, Washington

ppm = parts per million; mg/kg = milligrams per kilogram; "-" = not tested

TABLE 8
SUMMARY OF CHEMICAL ANALYTICAL DATA
TANK #4 WATER SAMPLE
FORMER UNOCAL SERVICE STATION 5479

Sample Number	Date Sampled	Fuel Hydrocarbons (EPA Method 8015, modified)		Halogenated Volatile Organic Compounds ¹ (EPA Method 8010) (µg/l)
		Gasoline- range (mg/l)	Diesel- range (mg/l)	
Tank #4	09/21/93	27	22	Tetrachloroethene 0.3
				1,1,1-Trichloroethane 0.5
				1,2-Dichloroethane 1.6
				1,2-Dichlorobenzene 2.7

Notes:

¹Only those compounds detected are listed. See lab reports in Appendix B for a complete list of analytes and detection limits.

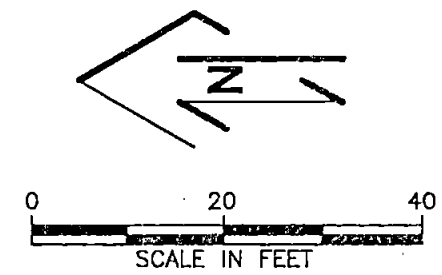
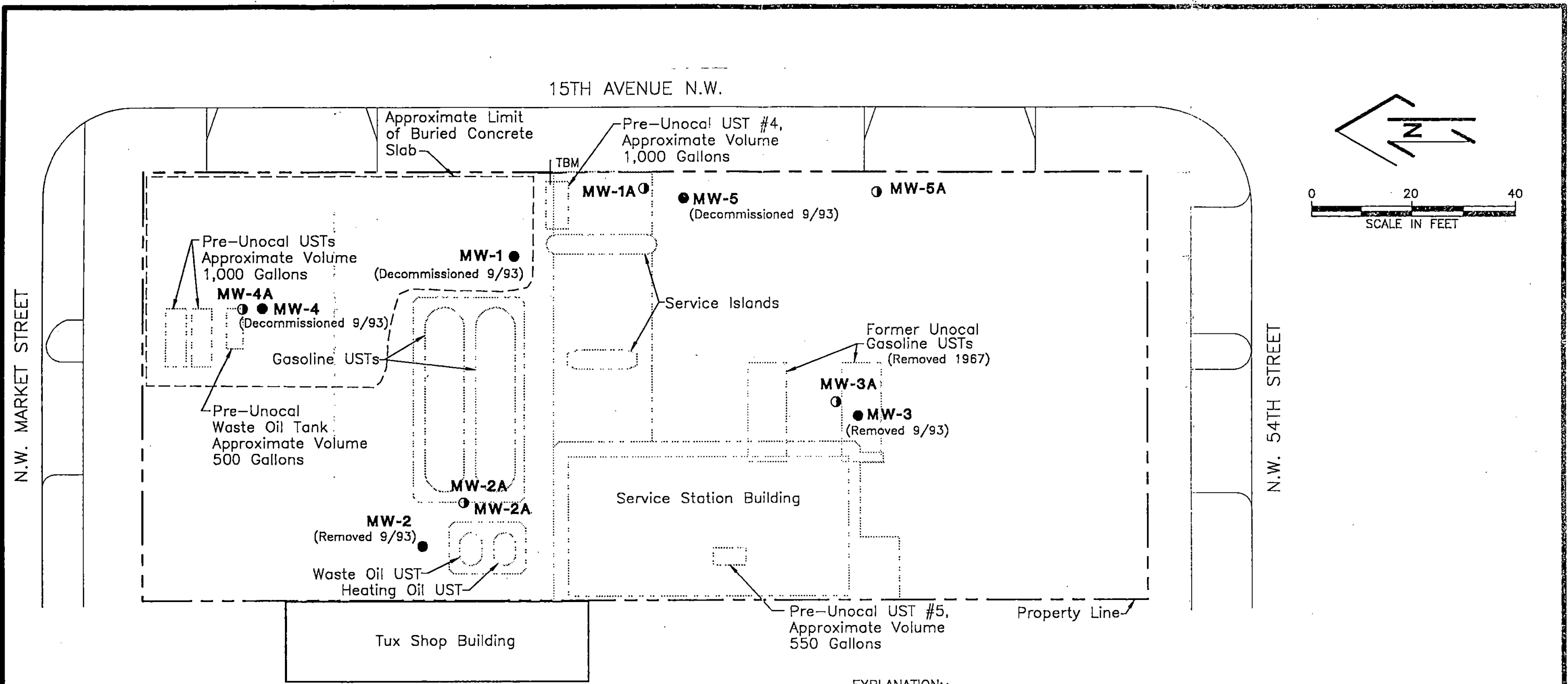
Analyses conducted by Analytical Technologies, Inc. of Renton, Washington.

mg/l = milligrams per liter

µg/l = micrograms per liter

ND = not detected

Document ID: 161270M8.WK1



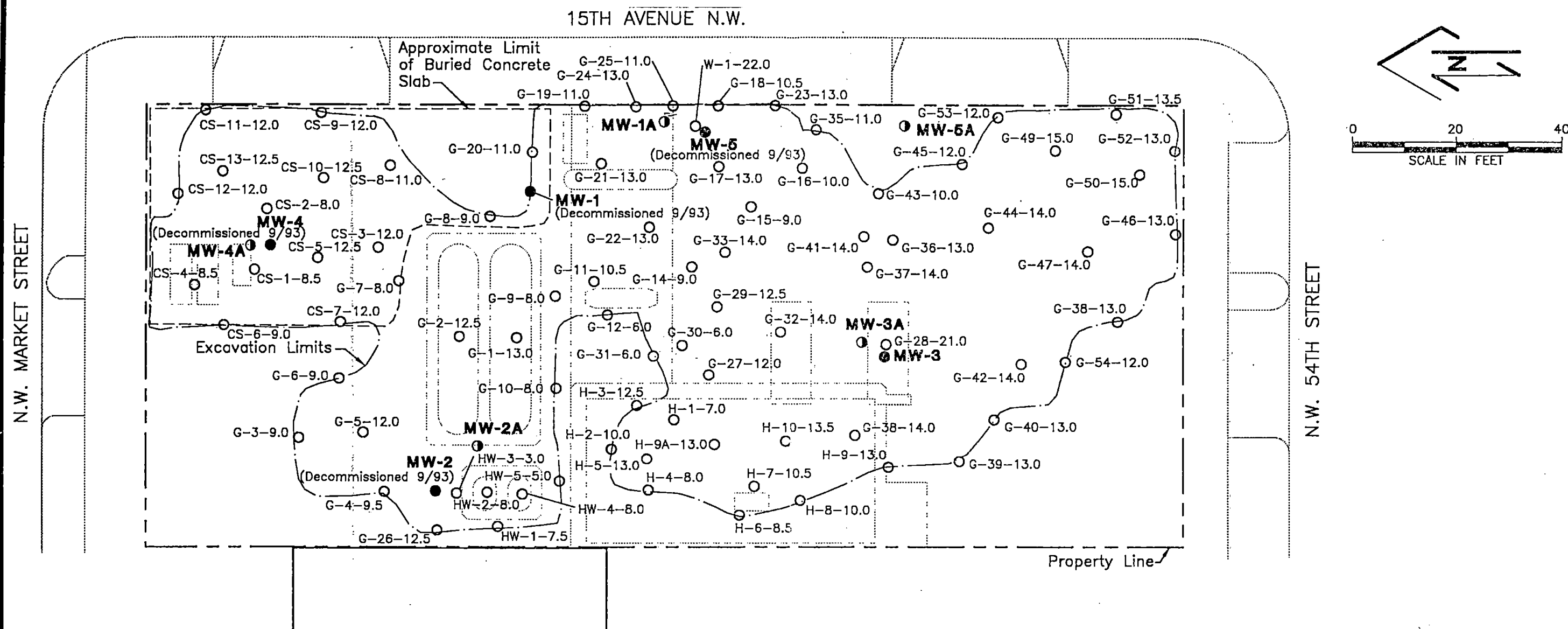
- EXPLANATION:
- MW-3 ● MONITORING WELL COMPLETED IN 07/90
 - MW-1A ○ MONITORING WELL COMPLETED IN 09/94
 - TBM + TEMPORARY BENCHMARK ON N.E. CORNER OF CATCH BASIN; ASSUMED ELEVATION OF 100.00 FEET
 - UST UNDERGROUND STORAGE TANK

- Notes:
1. The locations of all features shown are approximate.
 2. All aboveground and underground facilities were removed in or before 9/93.
 3. See Figure 1 for former site facilities identification.

Reference: Drawing entitled "General Arrangement, Service Station 5479, N.W. 15th St. & Market Ave., Seattle, Washington," by Unocal, dated 01/16/68.



SITE PLAN
FIGURE 2



EXPLANATION:

- MW-3** ● MONITORING WELL COMPLETED IN 07/90
- MW-1A** ○ MONITORING WELL COMPLETED 09/94
- G-1-13.0 ○ SOIL SAMPLE NUMBER, LOCATION AND DEPTH

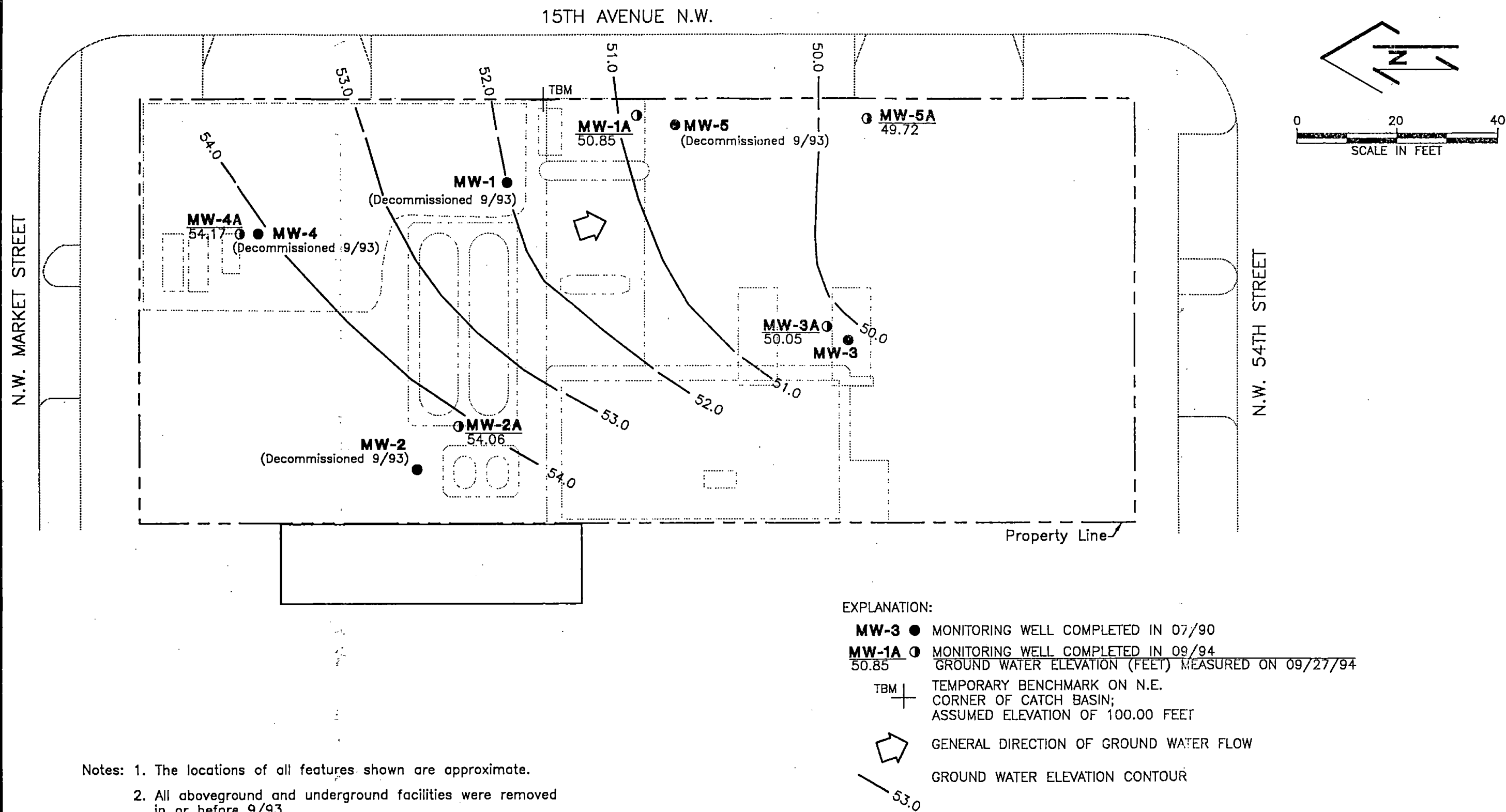
- Notes:
1. The locations of all features shown are approximate.
 2. All aboveground and underground facilities were removed in or before 9/93.
 3. See Figure 1 for former site facilities identification.

Reference: Drawing entitled "General Arrangement, Service Station 5479, N.W. 15th St. & Market Ave., Seattle, Washington," by Unocal, dated 01/16/68.

Geo  Engineers

EXCAVATION LIMITS

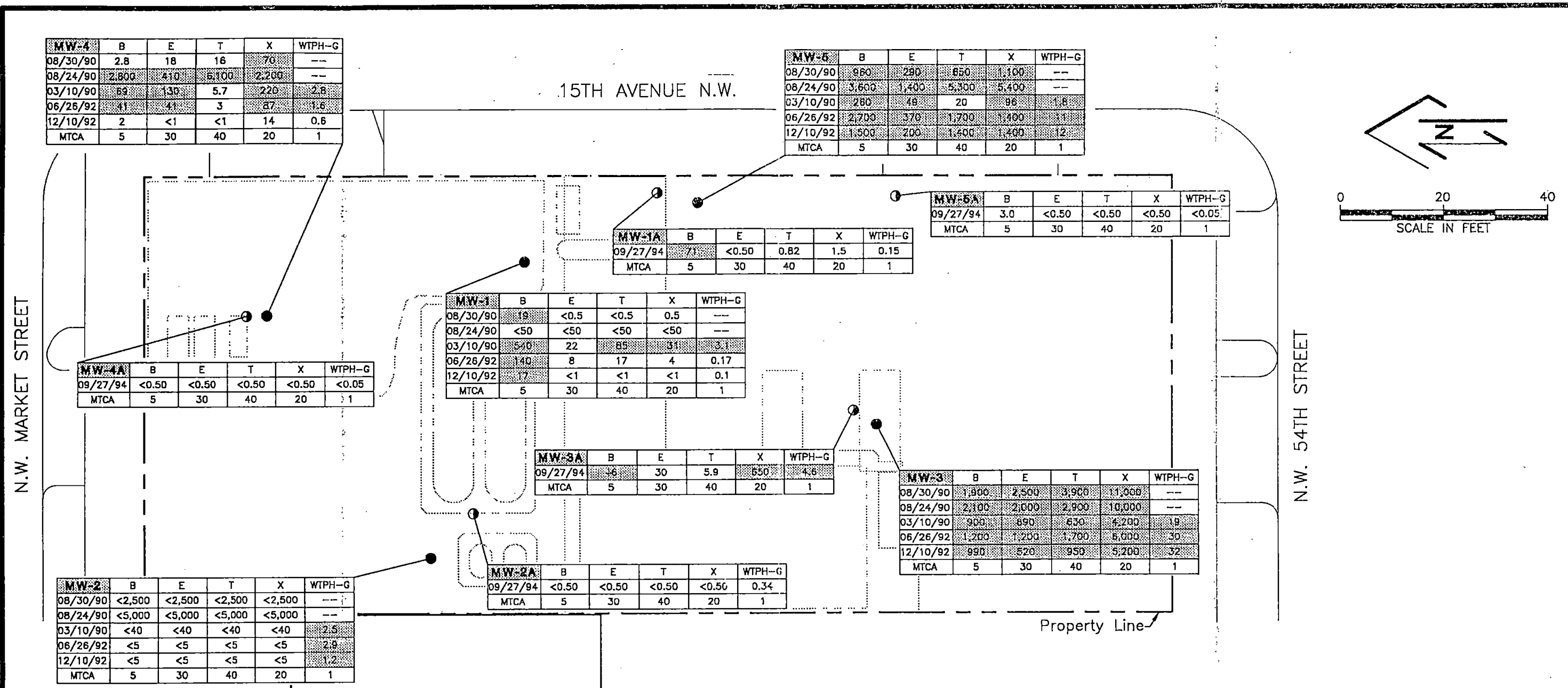
FIGURE 3



Geo  Engineers

GROUND WATER CONTOUR MAP - 09/27/94

FIGURE 4



- Notes: 1. The locations of all features shown are approximate.
2. All aboveground and underground facilities were removed in or before 9/93.
3. See Figure 1 for former site facilities identification.
4. Shading indicates concentrations greater than MTCA Method A cleanup levels.

EXPLANATION:

- MONITORING WELL COMPLETED IN 07/93
- MONITORING WELL COMPLETED IN 09/94
- B BENZENE ($\mu\text{g/l}$)
- E ETHYLBENZENE ($\mu\text{g/l}$)
- T TOLUENE ($\mu\text{g/l}$)
- X XYLENES ($\mu\text{g/l}$)
- NOT TESTED

WTPH-G GASOLINE-RANGE HYDROCARBONS (mg/l)

MTCA MODEL TOXICS CONTROL ACT METHOD A GROUND WATER CLEANUP LEVELS

Reference: Drawing entitled "General Arrangement, Service Station 5479, N.W. 15th St. & Market Ave., Seattle, Washington," by Unocal, dated 01/16/68.

Geo  Engineers

CONCENTRATIONS OF GASOLINE-RELATED HYDROCARBONS IN GROUND WATER

FIGURE 5

EXISTING
FIRE STATION

FORMER
TUX
SHOP

FORMER UNOCAL
SERVICE STATION



NW 54TH STREET

DRIVEWAY

MW2
94.49

MW4
93.27

SIDEWALK

MW1
93.68

WENDY'S
RESTAURANT

SIDEWALK

15TH AVENUE N.W.

ASPHALT PAVED

GROUNDWATER FLOW
DIRECTION

MW3
92.09

TRASH
ENCLOSURE

PROPERTY
BOUNDARY

LEGEND:

- MW1 MONITORING WELL
NUMBER AND LOCATION
- 93.68 GROUNDWATER SURFACE
ELEVATION
- PLANTER WITH TREE
- BENCHMARK



GILES ENGINEERING ASSOCIATES, INC.
19019 35th AVENUE WEST, SUITE G
LYNNWOOD, WA 98036
(206)-771-5775

FIGURE 2
SITE AND EXPLORATION PLAN
WENDY'S RESTAURANT
5315 15th AVENUE N.W.
SEATTLE, WASHINGTON

DESIGNED	DRAWN	APPROVED	SCALE	DATE
AJS	DOC	X	1 = 30'	07-16-97
PROJECT NO.: 6E-9706013			CAD No. E706013Z	

Table 1 - Summary of Analytical Results of Soil Samples

Sample No.	Sample Depth (ft)	BTEX (mg/kg)	WTPH-G (mg/kg)	WTPH-D (mg/kg)	WTPH-HO (mg/kg)	VOCs (ug/kg)
MW 1-10	10	ND	ND	ND	ND	ND
MW 2-15	15	ND	ND	ND	ND	ND
MW 3-7.5	7.5	ND	ND	ND	ND	ND
MW 4-15	15	ND	ND	ND	ND	90*

NOTES:

Sample concentrations are in milligrams per kilogram (mg/kg) or micrograms per kilogram (ug/kg).

BTEX - Benzene, Toluene, Ethylbenzene and Xylenes by EPA Method 8020.

WTPH-G - Gasoline-range petroleum hydrocarbons by Ecology Method WTPH-G.

WTPH-D - Diesel-range petroleum hydrocarbons by Ecology Method WTPH-D.

WTPH-HO - Heavy oil-range petroleum hydrocarbons by Ecology Method WTPH-D extended.

VOCs - Halogenated volatile organic compounds by EPA Method 8260A.

* - Indicates a sample concentration was of Tetrachloroethylene. All other analytes tested were not detected.

5.3 Results of Groundwater Analytical Testing

Analytical laboratory results of groundwater samples indicate samples did not contain detected concentrations of gasoline, diesel or heavy oil-range petroleum hydrocarbons, BTEX, or total lead in the samples collected from monitoring wells MW-1, MW-2, MW-3 and MW-4. Concentrations of chloroform were detected in groundwater collected from monitoring wells MW-1, MW-2, MW-3 and MW-4 at concentrations ranging from 7 micrograms per liter (ug/l) to 15 ug/l. These concentrations are below the Model Toxics Control Act (MTCA) Method B cleanup level of 80 ug/l as a non-carcinogen in groundwater. The sample from monitoring well MW-4 contained concentrations of toluene of 1 ug/l, cis-1, 2-dichloroethene of 15 ug/l, trichloroethene of 16 ug/l, tetrachloroethylene of 12,000 ug/l and 1,4-dichlorobenzene of 9 ug/l. The concentrations of trichloroethene, tetrachloroethylene and 1,4-dichlorobenzene are above the MTCA Method A or B cleanup levels in groundwater. The analytical results of the groundwater samples are summarized in Table 2 below.

Table 2 - Summary of Analytical Results of Groundwater Samples

Sample No.	Depth to Water (ft)	Water Elev. (Ft)	BTEX (ug/l)	WTPH-G (ug/l)	WTPH-D (ug/l)	WTPH-HO (ug/l)	VOCs (ug/l)	Total Lead (mg/l)
MW-1	6.61	93.68	ND	ND	ND	ND	7*	ND
MW-2	5.54	94.49	ND	ND	ND	ND	11*	ND
MW-3	7.86	92.09	ND	ND	ND	ND	11*	ND
MW-4	6.87	93.27	1(a)	ND	ND	ND	(b)	ND

NOTES:

Sample concentrations are in milligrams per liter (mg/l) or micrograms per liter (ug/l).

BTEX - Benzene, Toluene, Ethylbenzene and Xylenes by EPA Method 8020.

WTPH-G - Gasoline-range petroleum hydrocarbons by Ecology Method WTPH-G.

WTPH-D - Diesel-range petroleum hydrocarbons by Ecology Method WTPH-D.

WTPH-HO - Heavy oil-range petroleum hydrocarbons by Ecology Method WTPH-D extended.

VOCs - Halogenated volatile organic compounds by EPA Method 8260A.

a - Sample contained a toluene concentration of 1 ug/l.

b - Sample contained concentrations of cis-1,2-dichloroethene of 15 ug/l, chloroform of 15 ug/l, trichloroethene of 16 ug/l, tetrachloroethylene of 12,000 ug/l and 1,4-dichlorobenzene of 9 ug/l. All other analytes tested were not detected.

* - Sample concentration for chloroform.

6.0 SUMMARY AND CONCLUSIONS

Based upon the analytical results of the soil and groundwater samples taken during the Phase II ESA, it appears that the groundwater beneath the subject property has been impacted by chlorinated solvent compounds. Based on file research indicating there was a Unocal service station immediately up-gradient with documented petroleum hydrocarbons and chlorinated solvents and, considering the results of soil and groundwater data obtained for this study, it appears that the source of the chlorinated solvents in monitoring well MW-4 is likely the former Unocal service station property.

7.0 RECOMMENDATIONS

Based on the results of this Phase II ESA, no additional subsurface exploration is warranted at this time. We recommend submitting these findings to Ecology for their review to assist with their evaluation of ongoing remediation at the former Unocal service station property. We also recommend collection of groundwater samples from the on-site monitoring wells in six months to further assess the condition of the subsurface groundwater and determine whether the concentrations of chlorinated solvents in the groundwater have reduced.

APPENDIX C

Supporting Documents

*Former Tux Shop Figures and Data Tables
from Ecology Site File*

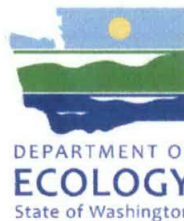


Legend:

- Property Location (approximate)
- Sump Excavation Location (approximate)
- Former Building Location (approximate)

Notes:

1. All locations are approximate, and not to scale.



The Tux Shop
5409 15th Avenue NW
Seattle, WA 98107

Site Overview Map

CSID 1450
 CSID1450.vsd

Table 1 - Soil Quality Data Collected from Well HC-1D

Sample Number	Depth Interval in Feet	PCE Concentration in mg/kg (ppm)
S-1	10 to 11.5	1.2
S-2	20 to 21.5	6.9
S-3	30 to 31.5	0.48
S-4	40 to 41.5	ND
S-5	45 to 46.5	0.045 J
S-6	50 to 51.5	ND
S-7	55 to 56.5	ND
S-8	60 to 61.5	ND
S-9	65 to 66.5	ND
S-10	70 to 71.5	ND
S-11	75 to 76.5	ND
S-12	80 to 81.5	ND
S-13	85 to 86.5	ND
S-14	90 to 91.5	0.088
S-15	92 to 95(a)	ND

Notes:

Tetrachloroethylene was the only halogenated volatile compound detected in Well HC-1D soil samples.

ND Not detected at a detection limit of 0.050 mg/kg.

J Estimated value.

(a) Sample collected from soil cuttings.

Table 2 - Soil Quality Data Collected during Previous Investigations

Sample ID	Sample Date	Depth in ft	Concentration in mg/kg (ppm)			
			PCE	TCE	1,2-DCE	MeCl
MW-Tux-1 (3.5)	Feb-91	3.5 - 5	ND	ND	ND	ND
MW-Tux-1 (13.5)	Feb-91	13.5 - 13.9	ND	ND	ND	ND
MW-Tux-2 (5.5)	Feb-91	5.5 - 6.5	ND	ND	ND	ND
MW-Tux-2 (11)	Feb-91	11 - 11.6	ND	ND	ND	ND
MW-Tux-3 (8.5)	Feb-91	8.5 - 10	ND	ND	ND	ND
MW-Tux-3 (11)	Feb-91	11 - 11.8	ND	ND	ND	ND
KMW-01 (02-A)	Feb-94	5 - 6.5	0.037	ND	ND	ND
KMW-01 (02-B)	Feb-94	10 - 11.5	0.028	ND	ND	ND
KMW-02 (03-B)	Feb-94	10 - 11.5	ND	ND	ND	ND
KMW-03 (04-A)	Feb-94	5 - 6.5	0.36	ND	ND	ND
KSB-02 (05-A)	Feb-94	5 - 6.5	1.5	ND	ND	ND
KMW-04 (06-B)	Feb-94	10 - 11.5	0.25	ND	ND	ND
KMW-05 (07-A)	Feb-94	5 - 6.5	0.8	ND	ND	0.037
KMW-05 (07-B)	Feb-94	10 - 11.5	0.32	ND	ND	0.038
HC-1/S-6	Dec-94	18.5 - 20	0.71	ND	ND	ND
HC-1/S-12	Dec-94	27.5 - 28.5	0.23	ND	ND	ND
HC-1/S-16	Dec-94	33.5 - 34.5	ND	ND	ND	ND
HC-1/S-20	Dec-94	39.5 - 40	0.085	ND	ND	ND
HC-2/S-4	Dec-94	14.5 - 16	0.59	ND	ND	ND
HC-2/S-8	Dec-94	24.5 - 26	0.19	ND	ND	ND
HC-2/S-11	Dec-94	32 - 32.5	ND	ND	ND	ND

Notes:

Samples analyzed using EPA Method 8010 - no other purgeable halocarbons detected in site soil samples.

PCE - Tetrachloroethylene

TCE - Trichloroethylene

DCE - Dichloroethylene

MeCl - Methylene Chloride

ND - Not Detected

Table 3 - Groundwater Quality Data Collected during Previous Investigations

Well ID	Screen Interval in ft.	Sample Date	Concentration in mg/L (ppm)					
			PCE	TCE	1,2-DCE	1,1-DCE	CTet	VC
MW-Tux-1	6.5 - 18	Mar-91	0.0014	ND	ND	ND	ND	ND
		May-91	0.00071	ND	ND	ND	ND	ND
		Sep-94	0.081	ND	ND	ND	ND	ND
MW-Tux-2	8 - 13.5	Mar-91	32	0.052	0.026	ND	ND	ND
		May-91	Dry	Dry	Dry	Dry	Dry	Dry
		Sep-94	Dry	Dry	Dry	Dry	Dry	Dry
MW-Tux-3	6 - 16	Mar-91	17	ND	ND	ND	ND	ND
		May-91	30	ND	ND	ND	ND	ND
		Sep-94	7.6	0.16	ND	ND	ND	ND
KMW-1	10 - 20	Feb-94	1.2	0.01	ND	ND	ND	ND
		Sep-94	1.2	ND	ND	ND	ND	ND
KMW-2	10 - 20	Mar-94	0.69	0.001	ND	ND	ND	ND
		Sep-94	0.31	ND	ND	ND	ND	ND
KMW-3	10 - 20	Mar-94	1.8	0.003	ND	ND	0.005	ND
		Sep-94	13	ND	ND	ND	ND	ND
KMW-4	10 - 20	Mar-94	41	0.028	ND	ND	0.004	ND
		Sep-94	20	ND	ND	ND	ND	ND
KMW-5	10 - 20	Mar-94	62	0.18	ND	ND	ND	ND
		Sep-94	100	1.1	ND	ND	ND	ND
MW-1A	8-18	Sep-94	0.21	0.077	0.15	ND	ND	0.058
MW-2A	8-18	Sep-94	0.88	0.0044	0.016	ND	ND	ND
MW-3A	8-18	Sep-94	0.37	0.079	0.18	ND	ND	ND
MW-4A	8-18	Sep-94	ND	ND	ND	ND	ND	ND
MW-5A	8-18	Sep-94	0.012	0.0047	0.056	ND	ND	ND
HC-1W	38 - 43	Dec-94	21	0.1	0.004	ND	ND	ND
		Jun-95	13	1.0	0.053	0.0034	ND	ND
		Jul-95	20	0.49	ND	ND	ND	ND
HC-1D	86.5 - 91.5	Jul-95	0.034	ND	ND	ND	ND	ND

Notes:

Samples analyzed using EPA Method 8010/8240.

PCE - Tetrachloroethylene

TCE - Trichloroethylene

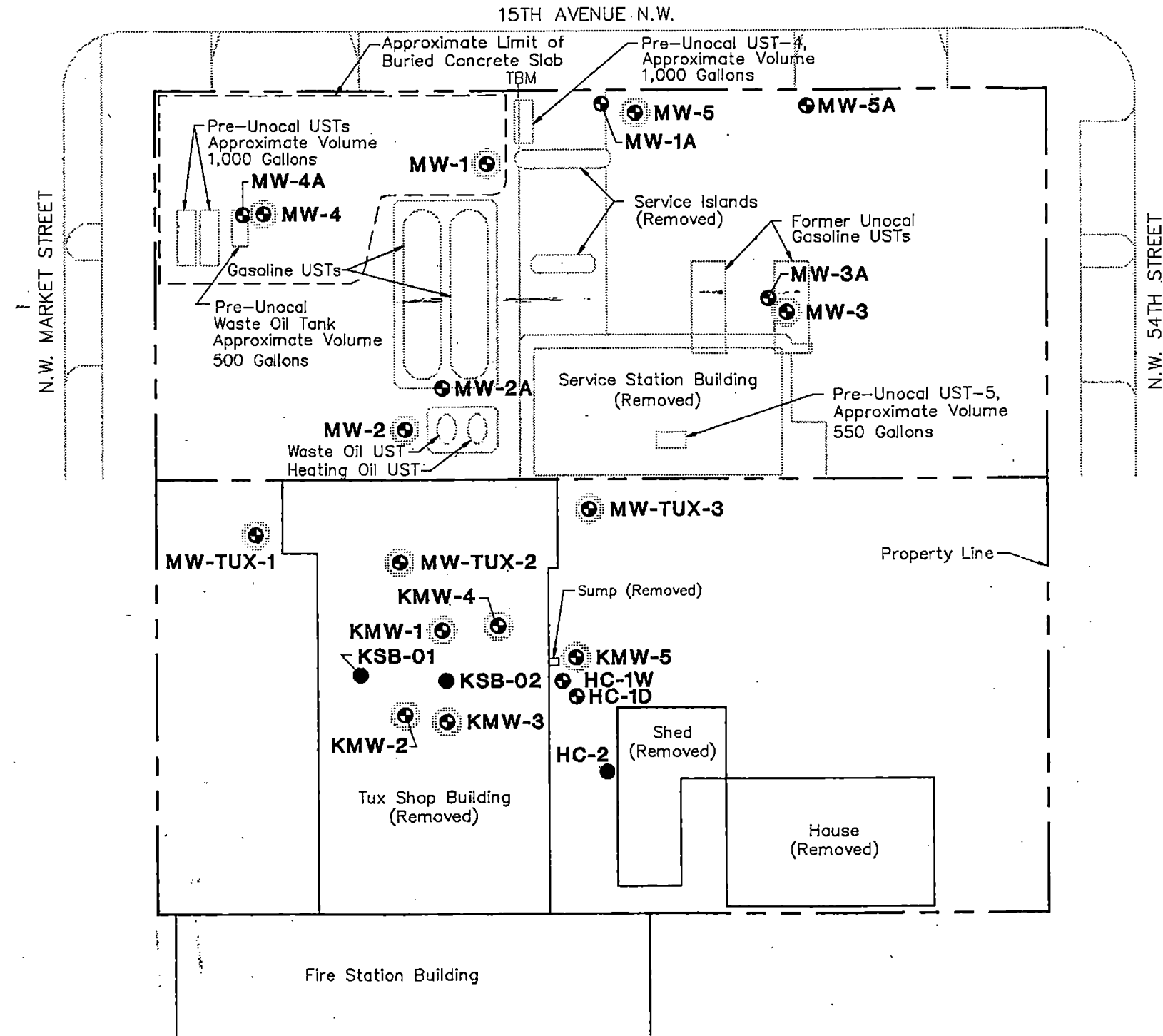
DCE - Dichloroethylene

CTet - Carbon Tetrachloride

VC - Vinyl Chloride

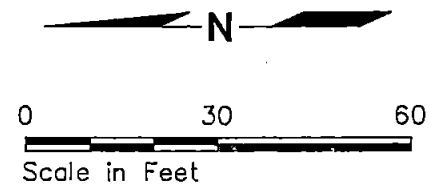
ND - Not Detected

Site Plan

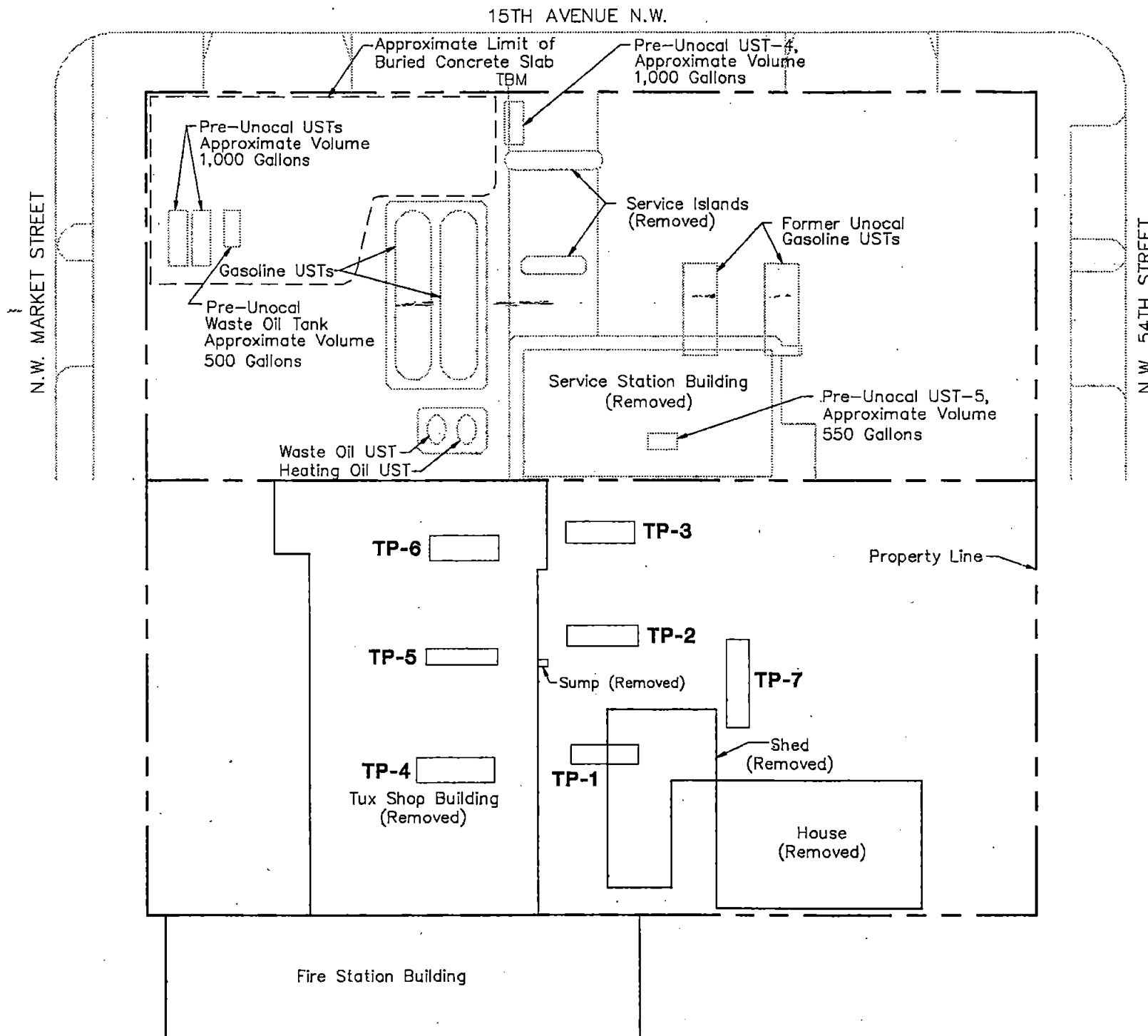


- Soil Boring Location
- ⊕ Decommissioned Monitoring Well Location and Number
- ⊙ Existing Monitoring Well Location and Number
- TBM + Temporary Benchmark on N.E. corner of Catch Basin; assumed elevation of 100.00 feet

- Notes:
1. Base map prepared from drawing provided by GeoEngineers entitled "Site Plan", dated October 19, 1994.
 2. The locations of all features shown are approximate.
 3. All aboveground and underground facilities shown on the Site Plan have been removed.



Test Pit Location Plan



TP-1 Test Pit Location and Number

TBM Temporary Benchmark on N.E. corner of Catch Basin; assumed elevation of 100.00 feet

- Notes:
1. Base map prepared from drawing provided by GeoEngineers entitled "Site Plan", dated October 19, 1994.
 2. The locations of all features shown are approximate.
 3. All aboveground and underground facilities shown on the Site Plan have been removed.
 4. Test pits were installed to observe the physical nature of subsurface soils. No soil samples from the test pits were submitted for chemical analysis.



0 30 60
Scale in Feet



HARTCROWSER

J-4422-02 12/95

Figure 2

Table 1 - Summary of Tux Shop Ballard Groundwater Quality Data

Well ID	Screen Interval in ft.	Sample Date	Concentration in mg/L (ppm)					
			PCE	TCE	1,2-DCE	1,1-DCE	CTet	VC
MW-Tux-1	6.5 - 18	Mar-91	0.0014	ND	ND	ND	ND	ND
		May-91	0.00071	ND	ND	ND	ND	ND
		Sep-94	0.081	ND	ND	ND	ND	ND
MW-Tux-2	8 - 13.5	Mar-91	32	0.052	0.026	ND	ND	ND
		May-91	DRY	DRY	DRY	DRY	DRY	DRY
		Sep-94	DRY	DRY	DRY	DRY	DRY	DRY
MW-Tux-3	6 - 16	Mar-91	17	ND	ND	ND	ND	ND
		May-91	30	ND	ND	ND	ND	ND
		Sep-94	7.6	0.16	ND	ND	ND	ND
KMW-1	10 - 20	Feb-94	1.2	0.01	ND	ND	ND	ND
		Sep-94	1.2	ND	ND	ND	ND	ND
KMW-2	10 - 20	Mar-94	0.69	0.001	ND	ND	ND	ND
		Sep-94	0.31	ND	ND	ND	ND	ND
KMW-3	10 - 20	Mar-94	1.8	0.003	ND	ND	0.005	ND
		Sep-94	13	ND	ND	ND	ND	ND
KMW-4	10 - 20	Mar-94	41	0.028	ND	ND	0.004	ND
		Sep-94	20	ND	ND	ND	ND	ND
KMW-5	10 - 20	Mar-94	62	0.18	ND	ND	ND	ND
		Sep-94	100	1.1	ND	ND	ND	ND
MW-1A	8 - 18	Sep-94	0.21	0.077	0.15	ND	ND	0.058
		Apr-96	0.0041	ND	ND	ND	ND	ND
MW-2A	8 - 18	Sep-94	0.88	0.0044	0.016	ND	ND	ND
		Apr-96	0.38	ND	0.024	ND	ND	ND
MW-3A	8 - 18	Sep-94	0.37	0.079	0.18	ND	ND	ND
		Apr-96	0.03	ND	ND	ND	ND	ND
MW-4A	8 - 18	Sep-94	ND	ND	ND	ND	ND	ND
		Apr-96	ND	ND	ND	ND	ND	ND
MW-5A	8 - 18	Sep-94	0.012	0.0047	0.056	ND	ND	ND
		Apr-96	0.051	0.018	0.11	ND	ND	ND
HC-1W	38 - 43	Dec-94	21	0.1	0.004	ND	ND	ND
		Jun-95	13	1	0.053	0.0034	ND	ND
		Jul-95	20	0.49	ND	ND	ND	ND
		Apr-96	26	0.42	0.033	ND	ND	ND
HC-1D	86.5 - 91.5	Jul-95	0.034	ND	ND	ND	ND	ND
		Apr-96	0.017	ND	ND	ND	ND	ND
		Blind Duplicate Apr-96	0.022	ND	ND	ND	ND	ND
HC-3	6-16	May-96	0.25	0.0052	0.0095	ND	ND	ND
HC-4	15-25	Apr-96	23	ND	ND	ND	ND	ND
		May-96	21	ND	ND	ND	ND	ND
HC-5	15-25	Jun-96	1.8	ND	ND	ND	ND	ND
		Duplicate Jun-96	2.1	ND	ND	ND	ND	ND
SP-1A	8 - 15	Mar-96	0.0087	0.0011	0.0033	ND	ND	ND
SP-1B	7 - 9	Mar-96	0.0031	ND	ND	ND	ND	ND
SP-2B	8 - 12	Mar-96	0.16	0.0063	0.01	ND	ND	ND
SP-3	7 - 10	Apr-96	0.048	ND	ND	ND	ND	ND
SP-4	8 - 10	Apr-96	0.074	0.0011	ND	ND	ND	ND
SP-5	8 - 10	Apr-96	0.059	ND	ND	ND	ND	ND
SP-6	12 - 15	Apr-96	8.9	0.0088	0.0045	ND	ND	ND
SP-7	13 - 15	Apr-96	ND	ND	ND	ND	ND	ND

Notes:

Samples analyzed using EPA Method 8010/8240.

PCE - Tetrachloroethylene

TCE - Trichloroethylene

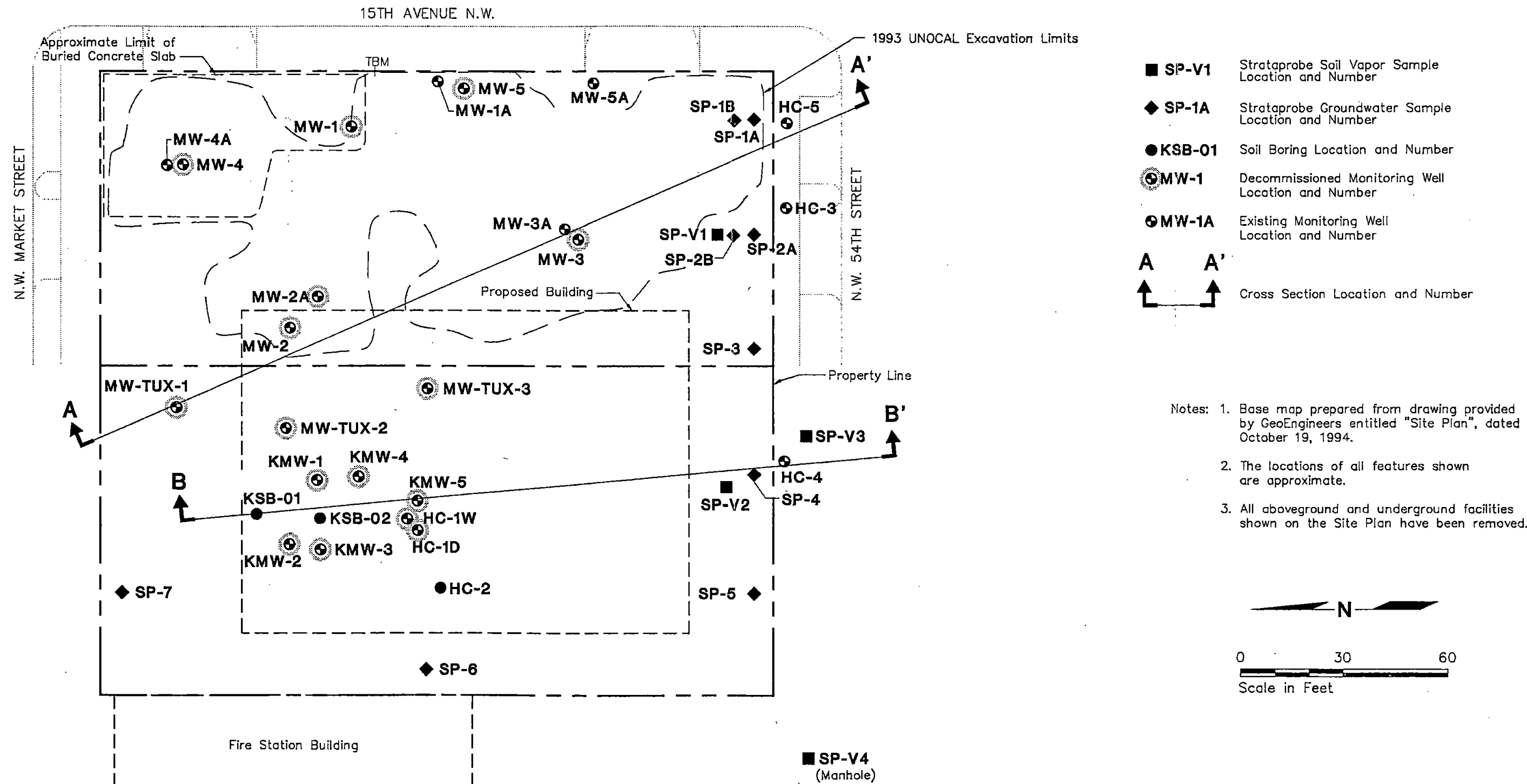
DCE - Dichloroethylene

CTet - Carbon Tetrachloride

VC - Vinyl Chloride

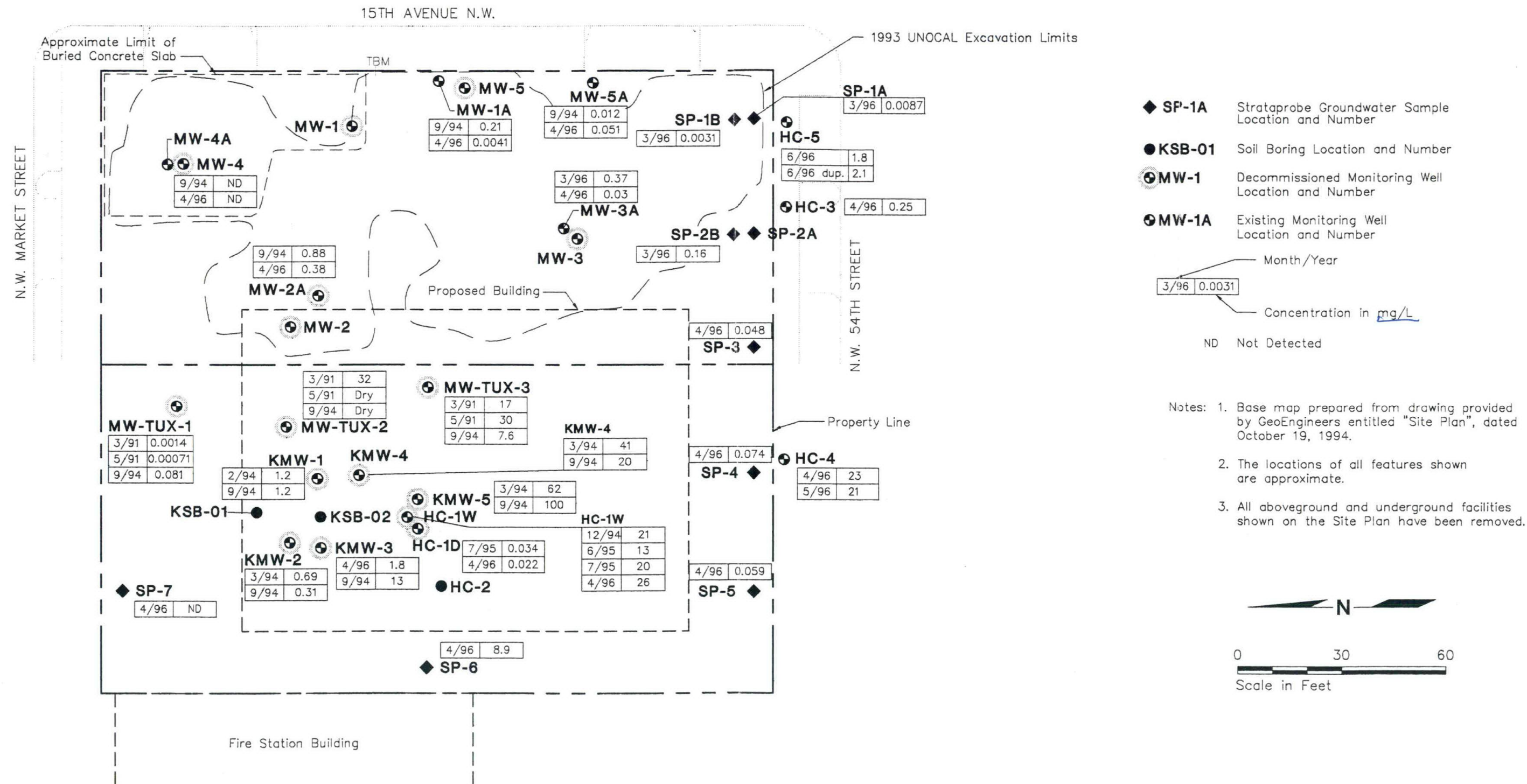
ND - Not Detected

Site and Exploration Plan



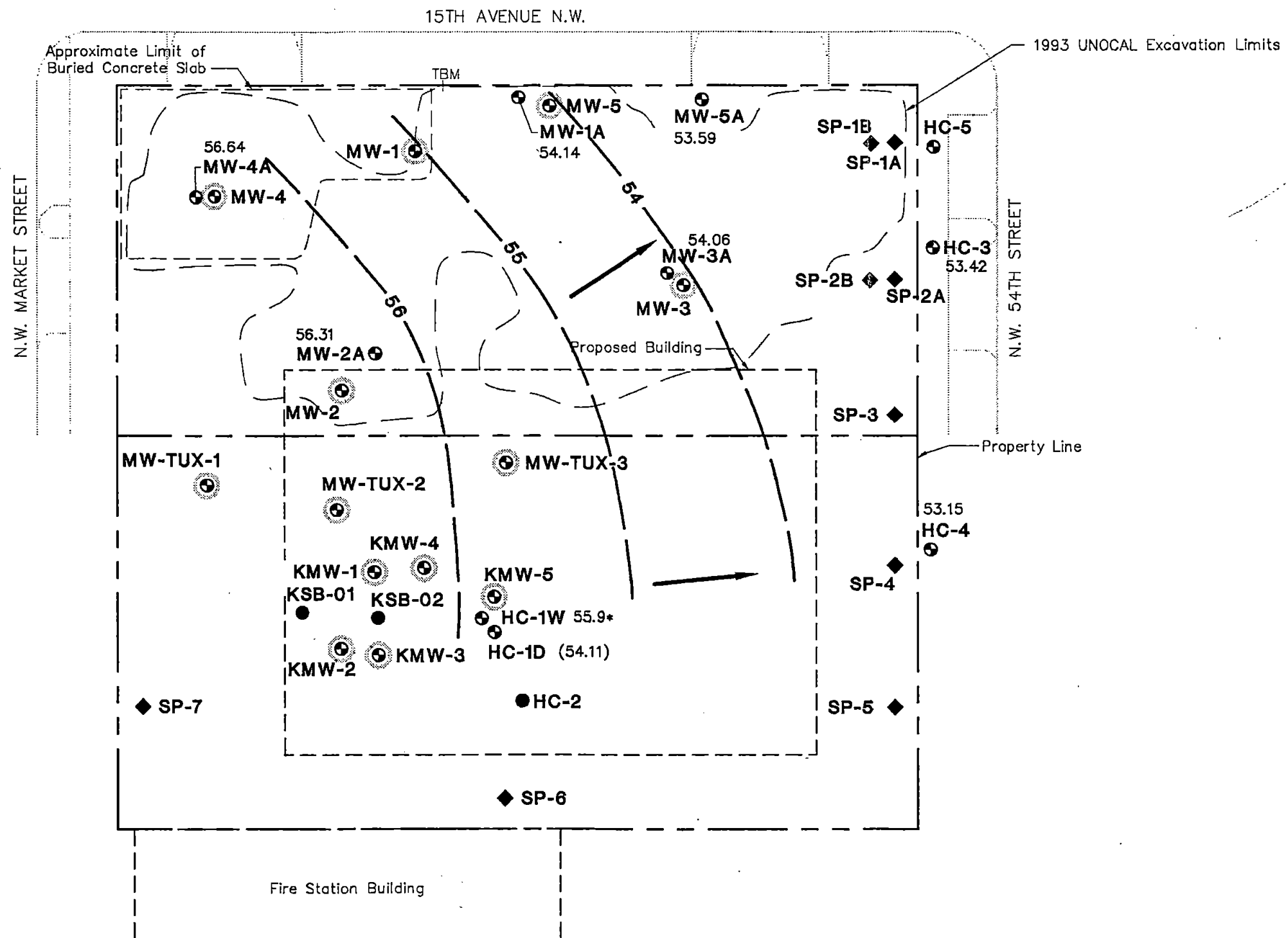
cvd 7/31/96 1=30 HC.pcp
44220700

Summary of Tetrachloroethene Concentrations in Groundwater
Through June 1996

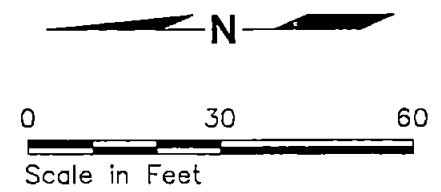


Groundwater Elevation Contour Map

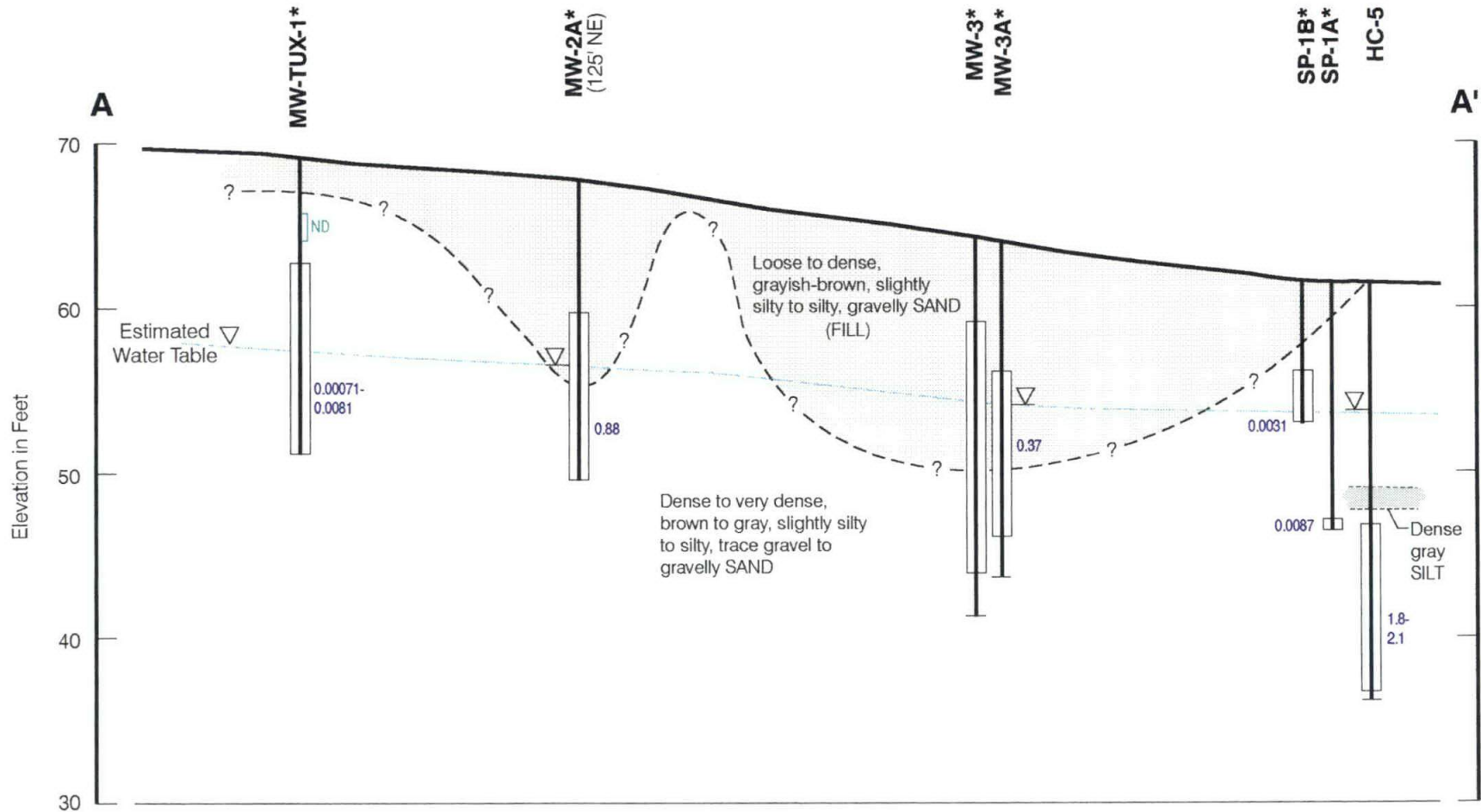
May 15, 1996



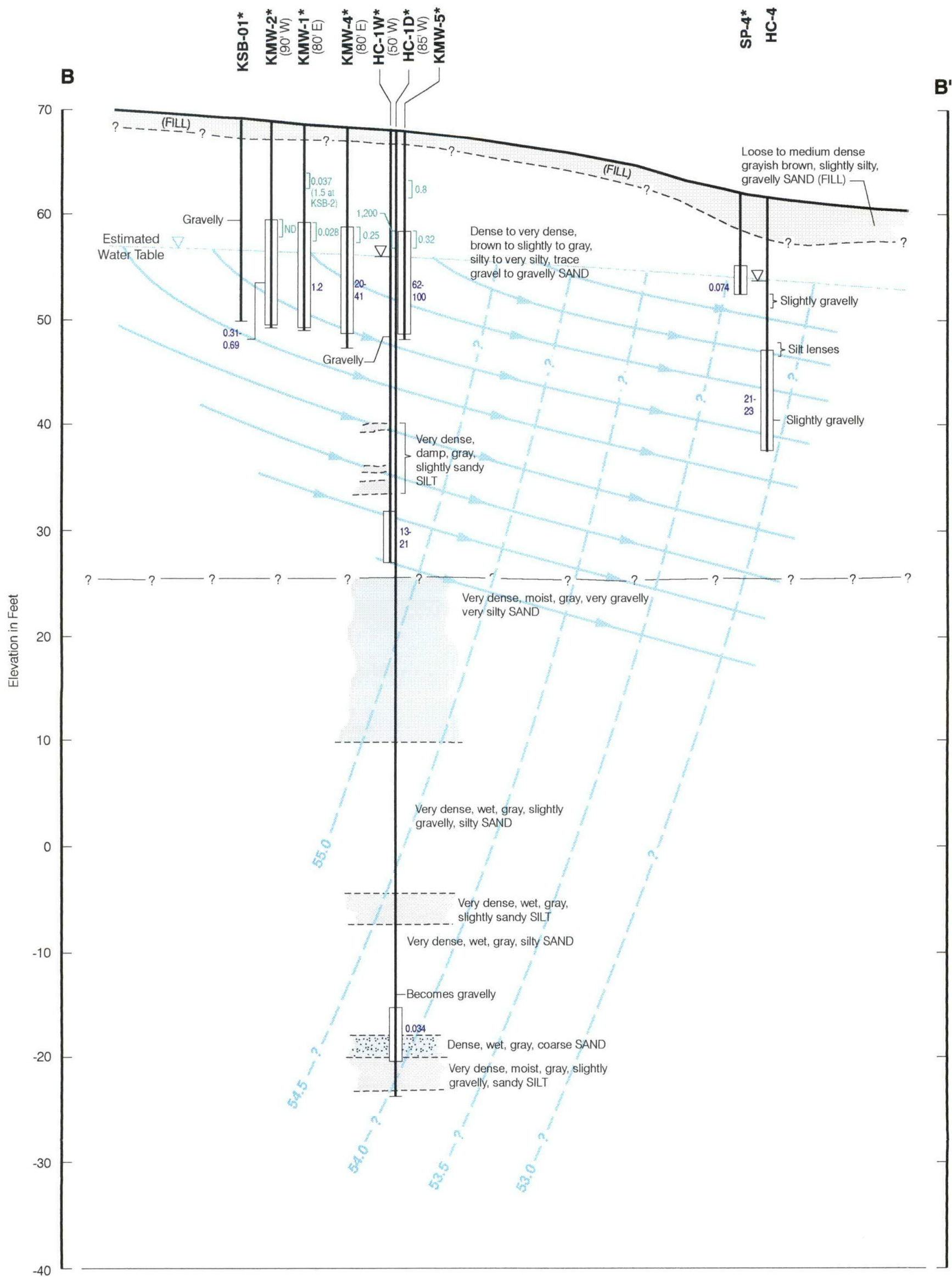
- ◆ SP-1A Strataprobe Groundwater Sample Location and Number
 - KSB-01 Soil Boring Location and Number
 - ⊙ MW-1 Decommissioned Monitoring Well Location and Number
 - ⊙ MW-1A Existing Monitoring Well Location and Number
 - 56.31 Groundwater Elevation in Feet
 - (54.11) Groundwater Elevation in Feet (not used in contouring)
 - 54 — Groundwater Elevation Contour in Feet
 - Generalized Groundwater Flow Direction
 - * Groundwater elevation estimated to be about 55.9 at a depth of 25', based on the vertical gradient between HC-1W and HC-1D.
- Notes: 1. Base map prepared from drawing provided by GeoEngineers entitled "Site Plan", dated October 19, 1994.
2. The locations of all features shown are approximate.
3. All aboveground and underground facilities shown on the Site Plan have been removed.



Generalized Subsurface Cross Section A-A'



Generalized Subsurface Cross Section B-B'



KMW-2*
(90' W)

Exploration Number
Offset Distance and Direction in Feet
Exploration Location

Water Level

Screened Section

* Indicates abandoned well or boring

13-21

Range of PCE Concentrations
Observed in Groundwater in mg/L(ppm)

0.8

Location and Concentration of PCE
in Soil in mg/kg(ppm)

ND

Not Detected

Estimated flow Net (Based on groundwater
elevations on May 15, 1996)

Horizontal Scale in Feet
0 30 60

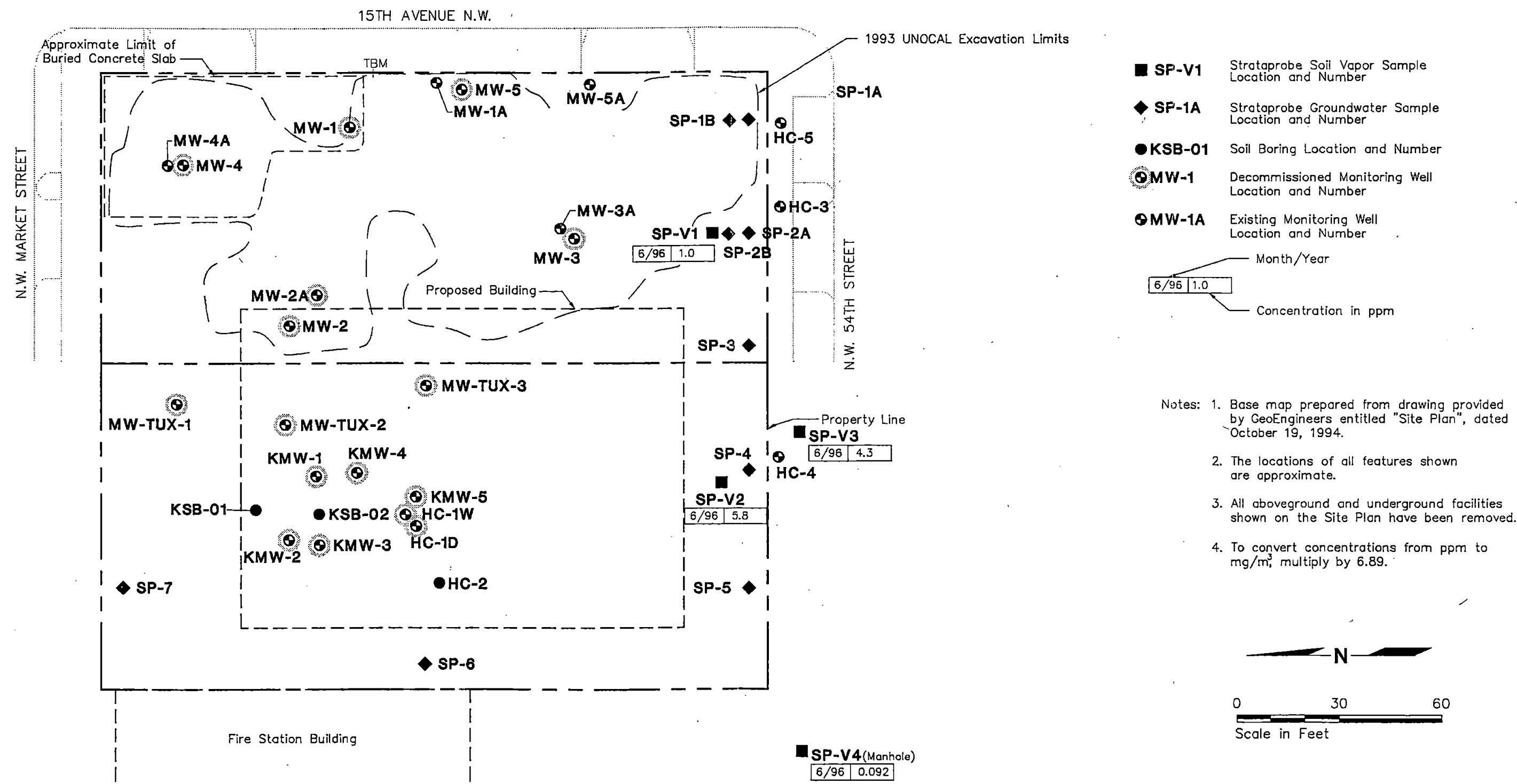
0 10 20

Vertical Scale in Feet
Vertical Exaggeration x 3

Note: Contact between soil units are based upon
interpolation between explorations and
represent our interpretation of subsurface
conditions based on currently available data.

Tetrachloroethene Concentrations in Soil Vapor

June 1996



CVD 7/31/96 1=50 HC.pcp 44220703

APPENDIX D

Supporting Documents

*Former Hollywood Video Figures and Data Tables
from Ecology Site File*

Table 3
Summary of Soil Sample Analytical Results for Petroleum Hydrocarbons
in milligrams/kilogram
Additional Phase II ESA
Proposed Fueling Center - 5314 Northwest 15th Avenue
Seattle (Ballard), Washington

Sample Location	Sample Depth (feet)	Gasoline-Range Petroleum Hydrocarbons ^(a)	Diesel-Range Petroleum Hydrocarbons ^(b)	Oil-Range Petroleum Hydrocarbons	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
Additional Phase II ESA Data									
BSB7	2.5	<20	90	50	<0.1	<0.1	0.13	1.36	<0.1
	10	<350	650	<50	<2.0	<2.0	5.8	42.2	<2.0
	14.5	<350	650	<50	<0.5	<0.5	1.5	7.6	<0.5
BSB8	5	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	14.5	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
BSB9	2.5	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	5	<180	460	<50	<0.5	<0.5	5.1	17	<0.5
	10	<30	110	<50	<0.2	0.28	1.7	13.5	<0.2
BSB10B	5	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	10	3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	14.5	<220	3,300	<500	<0.2	0.2	2.1	8.9	<0.2
BSB11	5	6	210	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	10	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	14.5	<160	14,000	<2500	<0.2	<0.2	2	2.1	<0.2
MW-1	5	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	10	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
MW-2	5	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
	10	<3	<25	<50	<0.01	<0.01	<0.01	<0.03	<0.01
Samples Analyzed For Phase II ESA (11/29/01)									
BSB1	1	25	160	<50	<0.03	<0.05	0.14	0.8	<0.1
	5	400	<50	<50	<0.12	0.2	1.2	6.8	<0.4
	10	1,200	<50	<50	<0.06	<0.1	2.1	6.2	<0.2
	15	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	20	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
BSB2	1	<3	320	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	5	<3	76	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	10	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
BSB3	15	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	1	<3	110	420	<0.03	<0.05	0.15	1.3	<0.1
	5	380	4,300	<200	<0.03	<0.05	<0.05	<0.2	<0.1
	10	<3	120	<50	<0.03	<0.05	<0.05	<0.2	<0.1
BSB4	15	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	1	<3	57	100	<0.03	<0.05	<0.05	<0.2	<0.1
BSB5	5	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	1	<3	130	400	<0.03	<0.05	<0.05	<0.2	<0.1
BSB6	5	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
	10	<3	<25	<50	<0.03	<0.05	<0.05	<0.2	<0.1
Samples Collected by GEO Group Northwest (Report dated August 31, 2001)									
B-1	10 to 12	1,800	<29	370	33.6	4.7	2.7	100	NA
	15	<5.6	<28	<56	<0.011	<0.056	<0.056	<0.056	NA
	25	22	<28	130	<0.011	<0.056	0.14	0.18	NA
B-3	1 to 3	<6.0	<31	130	<0.012	<0.061	<0.061	<0.061	NA
B-5	2 to 3	<6.1	<30	340	<0.012	<0.060	<0.060	<0.060	NA
MTCA Method A Soil Cleanup Level for Unrestricted Land Use ^(d)		100/30 ^(d)	2,000	2,000	0.03	7	6	9	0.1

(a) Using the NWTPH-Gx Method

(b) Using the NWTPH-Dx Method

(c) Model Toxics Control Act; WAC 173-340-900, Table 740-1

(d) The higher cleanup level is applicable if no benzene is detected and the total of ethylbenzene, toluene, and xylenes are less than 1% of the gasoline mixture.

511.2 35

Seattle (DuPont), Washington													
Sample Location	Depth (feet below grade)	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Total Naphthalenes	Benzo(a)anthracene	Benzo(b)pyrene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Indeno(1, 2,3-cd)pyrene	Total cPAHs (TEF Modified)	
Additional Phase II ESA Data													
BSB7	2.5	0.88	0.18	0.22	1.28	0.15	0.16	0.16	0.10	0.18	0.02	0.1	0.208
	10	27	9	21	57	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
	14.5	3.3	5.5	10	18.8	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
BSB8	5	<0.01	<0.02	<0.02	ND	<0.02	<0.02	0.03	<0.02	0.02	<0.02	<0.02	0.032
	14.5	<0.01	<0.02	<0.02	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
BSB9	2.5	<0.01	<0.02	<0.02	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
	5	23	8.2	18	49.2	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	ND
	10	5.6	2.5	5.5	13.6	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
BSB10B	5	<0.01	0.02	<0.02	0.05	0.29	0.31	0.33	0.15	0.37	0.04	0.2	0.401
	10	<0.01	<0.02	<0.02	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
	14.5	1.2	8.1	8.6	17.9	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	ND
BSB11	5	<0.02	<0.02	<0.02	ND	0.05	0.07	0.08	0.03	0.07	<0.02	0.05	0.094
	10	<0.02	<0.02	<0.02	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
	14.5	6.6	18	18	42.6	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	ND
MW-1	5	0.11	<0.02	0.1	0.21	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
	10	0.24	0.10	0.21	0.55	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
MW-2	5	<0.01	<0.02	<0.02	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
	10	<0.01	<0.02	<0.02	ND	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	ND
Samples Analyzed for Phase II ESA (11/29/01)													
BSB1	5	8	7.6	15	30.6	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	ND
	10	7.6	5.1	13	25.7	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	ND
BSB3	1	<0.02	<0.02	<0.02	ND	0.03	0.05	0.05	0.03	0.05	<0.02	0.03	0.069
	5	0.38	0.32	0.51	1.21	0.15	0.16	0.21	0.08	0.19	0.03	0.11	0.228
BSB5	1	<0.02	<0.02	<0.02	ND	0.03	0.03	0.05	<0.02	0.05	<0.02	0.02	0.046
Toxicity Equivalency Factors (TEFs)		NA				0.1	1	0.1	0.1	0.01	0.4	0.1	
MTCA Method A Soil Cleanup Level for Unrestricted Land Use		5											0.100

Table 5
Summary of Soil Sample Analytical Results for Detected Volatile Organic Compounds
by EPA Method 8260 in milligrams/kilogram
Additional Phase II ESA
Proposed Fueling Center - 5314 Northwest 15th Avenue
Seattle (Ballard), Washington

Sample Location	Depth (feet below grade)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Methyl Tertiary Butyl Ether	Napthalene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	Isopropyl Benzene	Isopropyl Toluene	n-Propyl Benzene	n-Butyl Benzene	s-Butyl Benzene	Tetrachloroethene
Fuel-Related Compounds															
BSB7	2.5	<0.1	<0.1	0.13	1.36	<0.1	0.88	0.65	1.9	<0.1	<0.1	<0.1	0.13	<0.1	<0.1
	10	<2.0	<2.0	5.8	4.2	<2.0	2.7	26	100	<2	<2	9.6	7.4	<2	<2
	14.5	<0.5	<0.5	1.5	7.6	<0.5	3.3	7.4	24	0.84	0.96	3.9	4.2	1.4	1.1
BSB8	5	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	14.5	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BSB9	2.5	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	5	<0.5	<0.5	5.1	17	<0.5	2.3	7.1	42	1.3	0.89	5.9	5.2	1.1	<0.5
	10	<0.2	0.28	1.7	11.6	<0.2	5.6	3.8	12	0.34	<0.2	1.5	1.1	0.23	<0.2
BSB10B	5	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	10	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	14.5	<0.2	0.2	2.1	8.9	<0.2	1.2	1.1	3.9	0.29	<0.2	0.58	0.49	0.28	<0.2
BSB11	5	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	10	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	14.5	<0.2	<0.2	2	2.1	<0.2	6.6	2.2	9.2	1.3	1.2	2.0	2.6	2.0	<0.2
MW-1	5	<0.01	<0.01	<0.01	<0.03	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	10	<0.01	<0.01	<0.01	<0.03	<0.01	0.24	0.083	0.32	<0.01	0.011	0.035	0.09	0.015	<0.01
MW-2	5	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	10	<0.01	<0.01	<0.01	<0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MTCA Method A Soil Cleanup Level for Unrestricted Land Use		0.03	7	6	9	0.1	5 ^(a)	NVE	NVE	1,600 ^(b)	NVE	NVE	NVE	NVE	0.05

(a) Soil Cleanup level for Total Napthalenes (Napthalene, 1-Methylnapthalene, 2-Methylnapthalene)

(b) MTCA Method B Soil Cleanup Level

NVE- No value established

Table 6
Summary of Ground Water Sample Analytical Results for Petroleum Hydrocarbons
in micrograms/Liter
Additional Phase II ESA
Proposed Fueling Center - 5314 Northwest 15th Avenue
Seattle (Ballard), Washington

Sample Location	Gasoline-Range Petroleum Hydrocarbons ^(a)	Diesel-Range Petroleum Hydrocarbons ^(b)	Oil-Range Petroleum Hydrocarbons ^(c)	Benzene ^(c)	Toluene ^(c)	Ethyl- benzene ^(c)	Total Xylenes ^(c)	MTBE ^(c)	Dissolved Lead ^(d)
Additional Phase II ESA Data									
BSB7 ^(e)	59,000	<130	<250	<200	<200	2,400	13,600	<200	—
BSB8 ^(e)	<50	<130	<250	<2	<2	<2	<6	<2	—
BSB9 ^(e)	60,000	430	<250	780	5,700	5,300	27,500	<200	—
BSB10 ^(e)	37,000	77,000	<5,000	3,300	3,700	1,400	7,000	<50	—
BSB11 ^(e)	<2000	390,000	<25,000	<40	<40	100	89	<40	—
MW-1 ^(e)	460	<130	<250	3	<2	10	17	<2	—
MW-2 ^(e)	<50	<130	<250	<2	<2	<2	<6	<2	—
MW-3 ^(e)	<50	<130	<250	<2	<2	<2	<6	<2	—
Samples Analyzed for Phase II ESA (11/29/01)									
BSB1 ^(e)	24,800	<250	<500	3	14	<2	360	<2	<4
BSB2 ^(e)	<50	<150	<250	<2	<2	<2	<4	<2	<4
BSB3	420	<130	<250	<1	<1	<1	<3	<3	—
BSB4	<50	<130	<250	<1	<1	<1	<3	<3	—
BSB5 ^(e)	630	1,500	<250	<2	<2	<2	<4	<2	<4
BSB6	<50	<130	<250	<1	<1	<1	<3	<3	—
MTCA Method A Ground Water Cleanup Level ^(f)	800/1,000 ^(g)	500	500	5	1,000	700	1,000	20	15

MTBE - Methyl Tertiary Butyl Ether

(a) Using the NWTPH-Gx Method

(b) Using the NWTPH-Dx Method

(c) Using EPA Method 8021B

(d) Using EPA Method 7421

(e) benzene, toluene, ethylbenzene, total xylenes, and MTBE analysis by EPA Method 8260

(f) Model Toxics Control Act; WAC 173-340, Table 740-1

(g) The higher cleanup level is applicable if no benzene is detected in ground water.

Figure 10

[illegible]

Table 8
Summary of Ground Water Analytical Results for Detected VOCs
in micrograms/Liter
Proposed Fueling Center - 5314 Northwest 15th Avenue
Seattle (Ballard), Washington

Analyte	Compound Family	BSB1 ^(a)	BSB2 ^(a)	BSB3 ^(b)	BSB4 ^(b)	BSB5 ^(a)	BSB6 ^(a)	BSB7 ^(a)	BSB8 ^(a)	BSB9 ^(a)	BSB10 ^(a)	BSB11 ^(a)	MW-1 ^(a)	MW-2 ^(a)	MW-3 ^(a)	MTCA Method A Ground Water Cleanup Level ^(c)
Benzene	Fuel-Related Compounds	3	<2	<1	<1	<2	<1	<200	<2	730	330	<40	<2	<2	<2	5.0 ^(d)
Toluene		14	<2	<1	<1	<2	<1	<200	<2	5700	3700	<40	<2	<2	<2	1,000 ^(d)
Ethylbenzene		<2	<2	<1	<1	<2	<1	2400	<2	5300	1400	100	<2	<2	<2	700 ^(d)
Total Xylenes		360	<4	<3	<3	<4	<3	13,600	<6	27,500	7000	89	<6	<6	<6	1,000 ^(d)
Methyl Tertiary Butyl Ether		<2	<2	<3	<3	<2	<3	<200	<2	<200	<50	<40	<2	<2	<2	20 ^(d)
Napthalene		70	<2	-	-	4	-	2,100	<2	3,400	280	280	<4	<2	<2	160 ^(d)
1,3,5-Trimethylbenzene		78	<2	-	-	2	-	3,000	<2	3,600	130	72	4	<2	<2	NVE
1,2,4-Trimethylbenzene		260	<2	-	-	10	-	11,000	<2	12,000	580	360	12	<2	<2	NVE
Isopropyl Benzene		12	<2	-	-	3	-	390	<2	490	<50	52	<2	<2	<2	1,600 ^(a)
Isopropyltoluene		4	<2	-	-	<2	-	<200	<2	<200	<50	<40	<2	<2	<2	NVE
n-Propyl Benzene		36	<2	-	-	5	-	1,400	<2	1,900	71	88	3	<2	<2	NVE
n-Butylbenzene		13	<2	-	-	3	-	520	<2	640	<50	61	<2	<2	<2	NVE
s-Butylbenzene		5	<2	-	-	2	-	<200	<2	<200	<50	51	<2	<2	<2	NVE
Tetrachloroethene	Chlorinated Compounds and Environmental Degradation Products	770	37	-	-	310	-	4,500	470	440	<50	<40	300	51	440	5.0 ^(d)
Trichloroethene		41	12	-	-	63	-	550	3	680	<50	<40	180	5	69	5.0 ^(d)
Cis 1,2-Dichloroethene		24	5	-	-	63	-	350	<2	4400	280	<40	46	12	47	80 ^(e)
Vinyl Chloride		<2	<2	-	-	<2	-	<200	<2	<200	230	<40	5	<2	3	0.2
Trans-1,2-Dichloroethene		<2	<2	-	-	<2	-	<200	<2	<200	<50	<40	3	<2	<2	160 ^(a)

(a) - Analysis by EPA Method 8260

(b) - Analysis by EPA Method 8021B

(c) - Model Toxics Control Act (WAC 173-340-720)

(d) - MTCA Method A Ground Water Cleanup Level

(e) - MTCA Method B Ground Water Cleanup Level

NVE - No Value Established, compound is regulated as a component of gasoline-range petroleum hydrocarbons

KEY

SOURCE: USGS 7.5 MINUTE QUADRANGLE
(TOPOGRAPHIC)

SEATTLE NORTH, WA
1992



SCALE: 1:25,000



ENVIRONMENTAL
PARTNERS INC

FIGURE 1
GENERAL VICINITY MAP

PROJECT	082165.0/082165.1
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PREPARED FOR SAFEWAY INC.

LOCATION	5314 15TH AVENUE NW SEATTLE (BALLARD), WASHINGTON
----------	--

SHEET
1 of 1

DRAWN BY
BPS

REVIEWED BY
TCM

DATE
11/29/01

NW 54TH STREET

SIDEWALK

SUBJECT
PROPERTY

PROPOSED FUELING ISLANDS

ASPHALT

PROPOSED KIOSK

1433 NW 54TH

5314 15TH AVENUE NW
(ONE STORY CONCRETE)

PROPOSED USTS

5300 15TH AVENUE NW

1446 NW 53RD ST.

1440 NW 53RD ST

1436 NW 53RD ST

KEY



SCALE: 1" = 25'

B-5

BORINGS BY GEO GROUP NORTHWEST



CATCH BASIN

BSB5

EPI BORING LOCATION (HSA)

BSB7

EPI BORING LOCATION (PROBE)

MW-3

EPI MONITORING WELL LOCATION



FIGURE 2
SITE REPRESENTATION WITH SAMPLING
LOCATIONS AND PROPOSED
SITE IMPROVEMENTS

PROJECT

082165.1

PREPARED
FOR

SAFEWAY INC.

LOCATION

15TH AVENUE NORTHWEST
BALLARD, WA

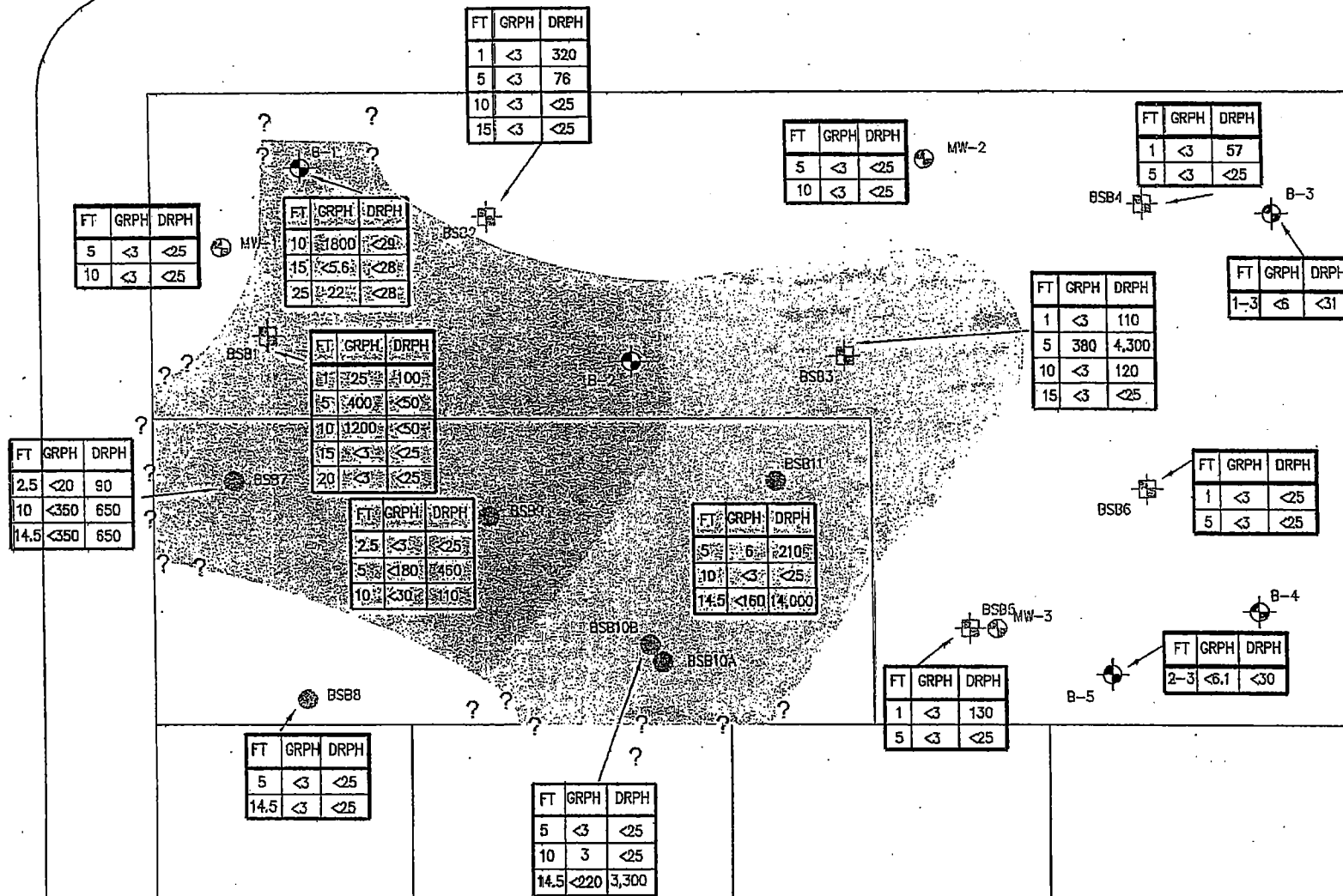
SHEET
1 of 1

DRAWN BY
BPS

REVIEWED BY
TCM

DATE
2/20/02

NW 54TH STREET



KEY



BORINGS BY GEO GROUP NORTHWEST



EPI BORING LOCATIONS


 AREAS OF SOIL WITH
GRPH ABOVE 30 MG/KG
AND DRPH ABOVE 2,000 MG/KG
(QUERIED WHERE UNCERTAIN)

 AREAS OF SOIL WITH
GRPH ABOVE 30 MG/KG
AND DRPH ABOVE 2,000 MG/KG
(QUERIED WHERE UNCERTAIN)

FT	GRPH	DRPH
2-3	<6.1	<30

 GRPH AND DRPH
CONCENTRATIONS
IN mg/kg VS DEPTH

 ENVIRONMENTAL
PARTNERS INC

FIGURE 4
SOIL SAMPLING RESULTS FOR
GRPH AND DRPH IN mg/kg WITH
ESTIMATED EXTENT OF IMPACT

PROJECT

082165.1

 PREPARED
FOR

SAFEWAY INC.

LOCATION

 15TH AVENUE NORTHWEST
BALLARD, WA

SHEET

1 of 1

DRAWN BY

BPS

REVIEWED BY

TCM

DATE

2/20/02



SCALE: 1" = 25'

NW 54TH STREET

SIDEWALK

ASPHALT

1433 NW 54TH STREET

5314 15TH AVENUE NW
(ONE STORY CONCRETE)

5300 15TH AVENUE NW

1446 15TH AVENUE NW

1440 15TH AVENUE NW

1436 15TH AVENUE NW

KEY



SCALE: 1" = 25'



BORINGS BY GEO GROUP NORTHWEST



EPI BORING LOCATION (HSA)



EPI BORING LOCATION (PROBE)



EPI MONITORING WELL LOCATION
WITH 2/13/02 WATER TABLE
ELEVATION



CATCH BASIN



GROUND WATER
ELEVATION CONTOUR

CONTOURS PRODUCED IN SURFER 7.0 USING A
TRIANGULATION WITH LINEAR INTERPOLATION



ENVIRONMENTAL
PARTNERS INC

FIGURE 3
SITE REPRESENTATION WITH GROUND
WATER ELEVATION CONTOURS

PROJECT 082165.1

PREPARED
FOR SAFeway INC.

LOCATION 15TH AVENUE NORTHWEST
BALLARD, WA

SHEET
1 of 1

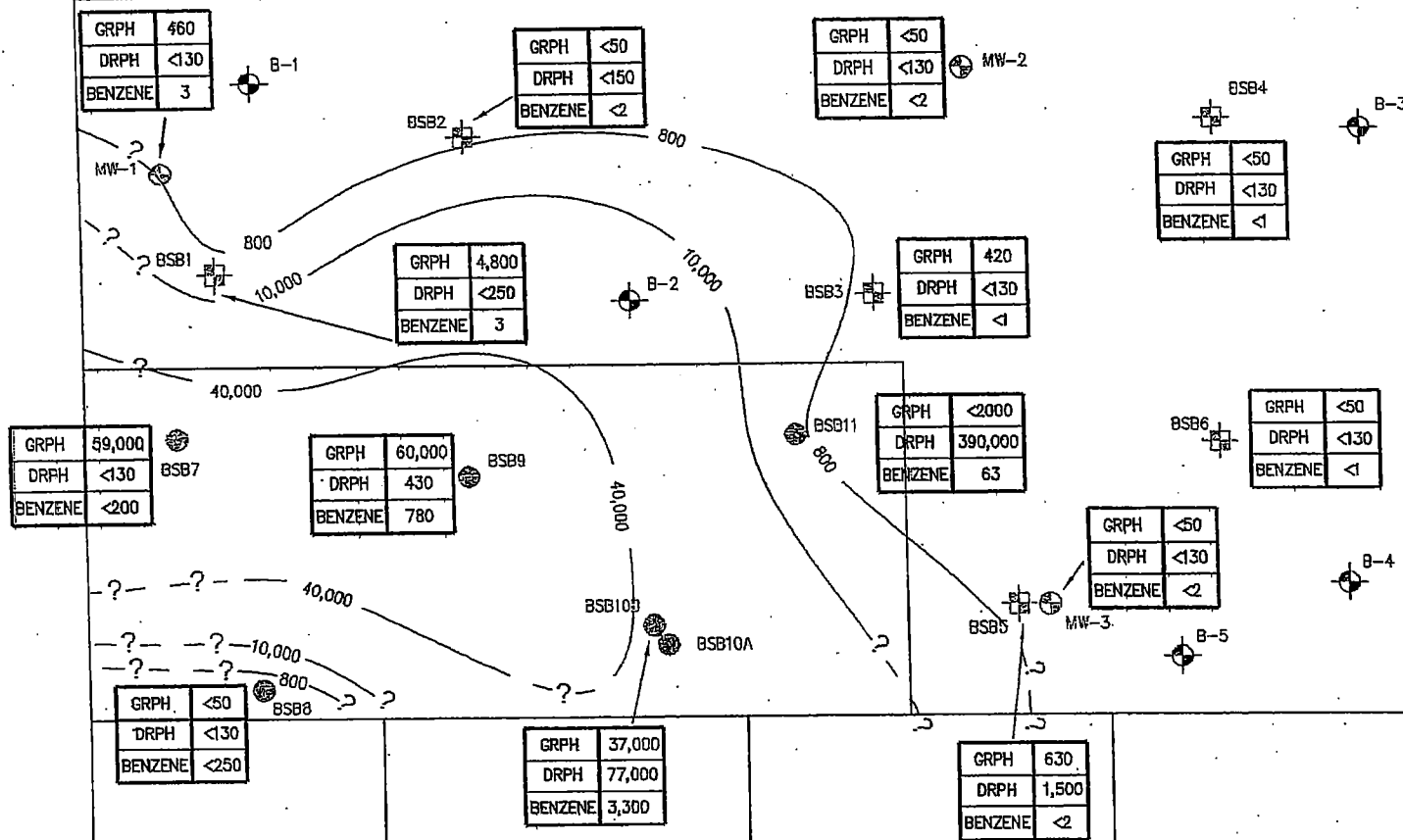
DRAWN BY
BPS

REVIEWED BY
TCM

DATE
2/15/02

NW 54TH STREET

15TH AVENUE NW



KEY

B-5 BORINGS BY GEO GROUP NORTHWEST

BSB5 EPI BORING LOCATIONS

BSB7 EPI BORING LOCATION (PROBE)

MW-3 EPI MONITORING WELL LOCATION

GRPH	310
DRPH	88
BENZENE	.63

CONCENTRATIONS IN µg/L
GRPH-GASOLINE RANGE
PETROLEUM HYDROCARBONS
DRPH-DIESEL RANGE
PETROLEUM HYDROCARBONS

GRPH GROUND WATER
CONTAMINATION CONTOUR

CONTOURS DASHED AND
QUERIED WHERE UNCERTAIN

CONTOURS PRODUCED IN SURFER 7.0 USING A MINIMUM CURVATURE TECHNIQUE



ENVIRONMENTAL
PARTNERS INC

FIGURE 5
GROUND WATER SAMPLING RESULTS
FOR GRPH, DRPH, AND BENZENE
WITH GRPH CONCENTRATION CONTOURS

PROJECT 082165.1

PREPARED FOR SAFEWAY INC.

LOCATION 15TH AVENUE NORTHWEST
BALLARD, WA

SHEET
1 of 1

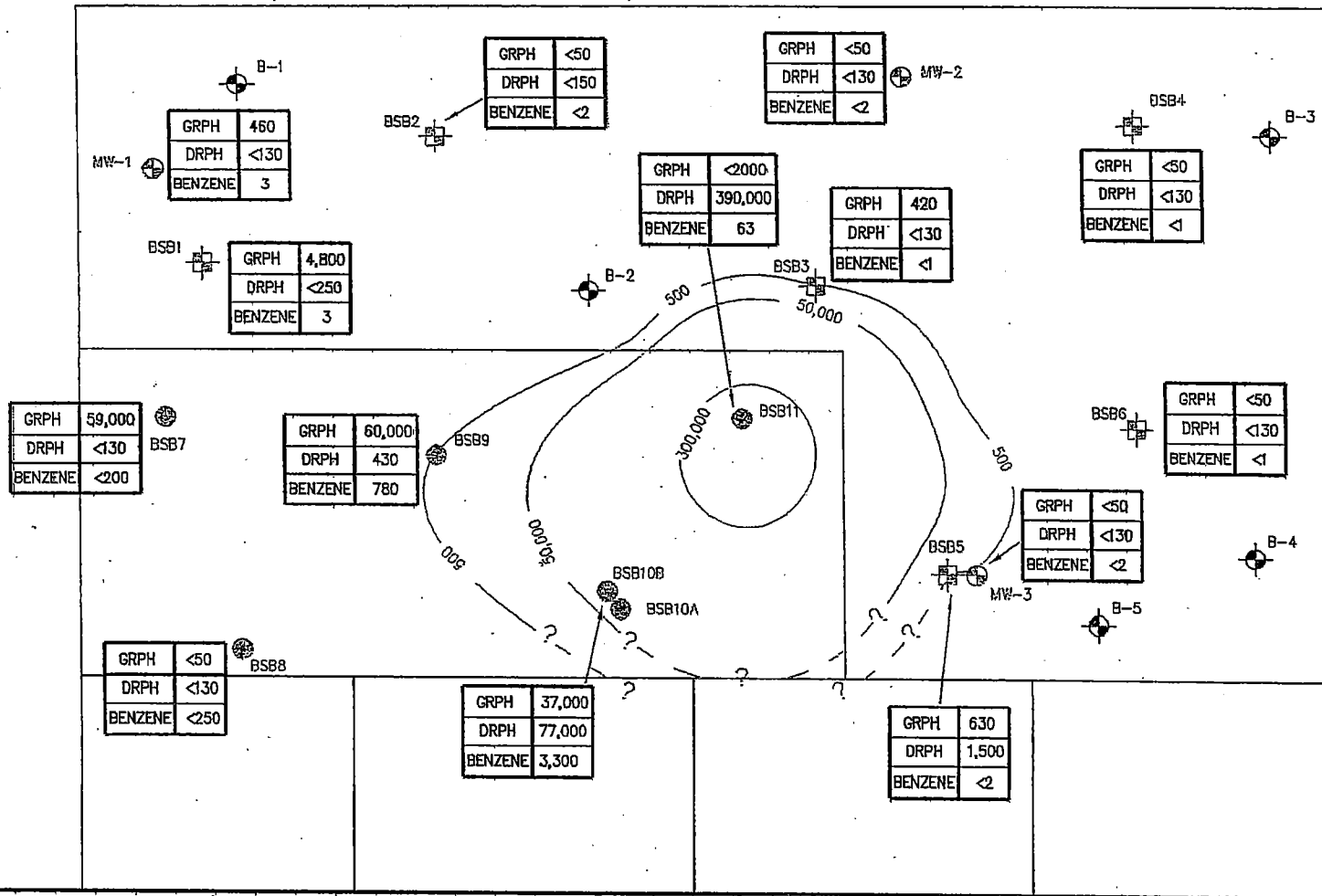
DRAWN BY
DKM

REVIEWED BY
TCM

DATE
2/20/02

NW 54TH STREET

15TH AVENUE NW



KEY



B-5 BORINGS BY GEO GROUP NORTHWEST
BSB5 EPI BORING LOCATIONS
BSB7 EPI BORING LOCATION (PROBE)
MW-3 EPI MONITORING WELL LOCATION

GRPH	310
DRPH	88
BENZENE	63

CONCENTRATIONS: µg/L
GRPH-GASOLINE RANGE PETROLEUM HYDROCARBONS
DRPH-DIESEL RANGE PETROLEUM HYDROCARBONS

DRPH GROUND WATER CONTAMINATION CONTOUR

CONTOURS DASHED AND QUERIED WHERE UNCERTAIN

CONTOURS PRODUCED IN SURFER 7.0 USING A MINIMUM CURVATURE TECHNIQUE



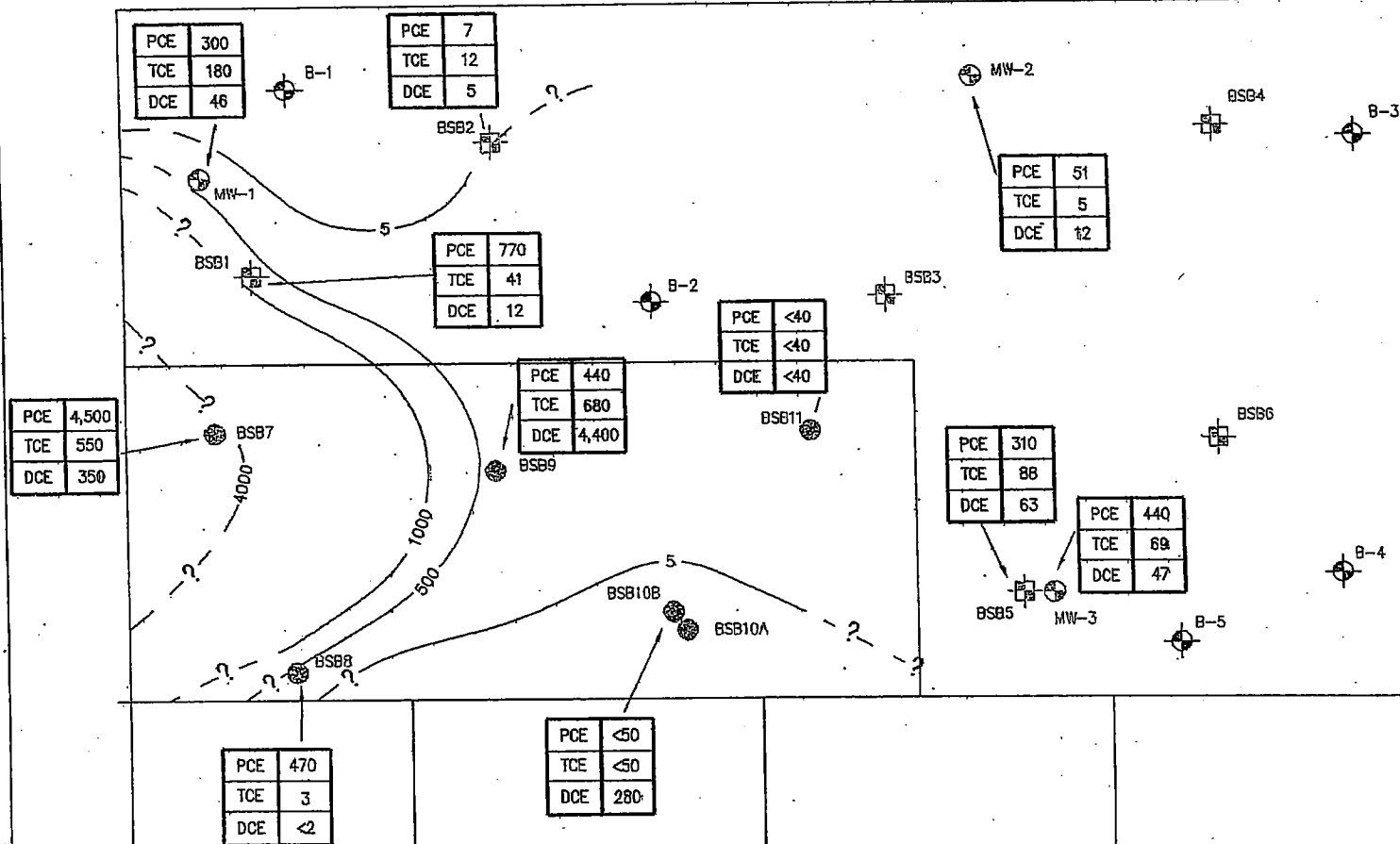
ENVIRONMENTAL PARTNERS INC

FIGURE 6
GROUND WATER SAMPLING RESULTS FOR GRPH, DRPH, AND BENZENE WITH DRPH CONCENTRATION CONTOURS

PROJECT	082165.1
PREPARED FOR	SAFEWAY INC.
LOCATION	15TH AVENUE NORTHWEST BALLARD, WA
SHEET	1 of 1
DRAWN BY	DKM
REVIEWED BY	TCM
DATE	2/20/02

NW 54TH STREET

15TH AVENUE NW



PCE GW: 5 ppb

KEY

B-5 BORINGS BY GEO GROUP NORTHWEST

BSB5 EPI BORING LOCATIONS

BSB7 EPI BORING LOCATION (PROBE)

MW-3 EPI MONITORING WELL LOCATION

PCE	310
TCE	88
DCE	63

CONCENTRATIONS: µg/L
PCE → TETRACHLOROETHENE
TCE → TRICHLOROETHENE
DCE → CIS 1,2-DICHLOROETHENE

PCE GROUND WATER CONCENTRATION CONTOUR µg/L

--- ? --- CONTOURS DASHED AND QUERIED WHERE UNCERTAIN

CONTOURS CREATED IN SURFER 7.0 USING A MINIMUM CURVATURE METHOD



ENVIRONMENTAL PARTNERS INC

FIGURE 7
GROUND WATER SAMPLING RESULTS
FOR CHLORINATED VOCs IN µg/L

PROJECT

082165.1

PREPARED FOR

SAFEWAY INC.

LOCATION

5314 15TH AVENUE NORTHWEST
BALLARD, WA

SHEET 1 of 1

DRAWN BY DKM

REVIEWED BY TCM

DATE 2/19/02



SCALE: 1" = 25'



INITIAL INVESTIGATION FIELD REPORT

☐ Check this box if you have attached any documents to this form (using the paperclip icon on the left).

ERTS #(s):
Parcel #(s):
County:
FSID #:
CSID #:
UST #:

615400
2768300405
King
14234
13232

SITE INFORMATION

<u>Site Name (Name over door):</u> Hollywood Video Property	<u>Site Address (including City, State and Zip):</u> 5314 15th Ave NW Seattle, WA 98107	<u>Phone</u> <u>Email</u>
<u>Site Contact, Title, Business:</u> Timothy Johnson GeoTech Consultants, Inc	<u>Site Contact Address (including City, State and Zip):</u> 13256 NE 20th St, Ste 16 Bellevue, WA 98005	<u>Phone</u> (425) 747-5618 <u>Email</u> TimJ@geotechnw.com
<u>Site Owner, Title, Business:</u> William Oseran, Manager ETI4 LLC	<u>Site Owner Address (including City, State and Zip):</u> 2030 Dexter Ave N #400 Seattle, WA 98109	<u>Phone</u> <u>Email</u>
<u>Site Owner Contact, Title, Business:</u> ETI4 LLC	<u>Site Owner Contact Address (including City, State and Zip):</u> 2030 Dexter Ave N #400 Seattle, WA 98109	<u>Phone</u> <u>Email</u>
<u>Previous Site Owner(s):</u> Several	<u>Additional Info (for any Site Information Item):</u> ENL to William Oseran, ETI4 LLC E-cc: Timothy Johnson	
<u>Alternate Site Name(s):</u> Mud Bay Pet Supply		

Latitude (Decimal Degrees): 47.667594

Longitude (Decimal Degrees): -122.375815

INSPECTION INFORMATION

☐ Please check this box if there is relevant inspection information, such as data or photos, in an existing site report for this site.

<u>Inspection Conducted?</u> Yes ☐ No ☒	<u>Date/Time:</u>	<u>Entry Notice:</u> Announced ☐ Unannounced ☐
<u>Photographs taken?</u> Yes ☐ No ☐	Note: Attach photographs or upload to PIMS	
<u>Samples collected?</u> Yes ☐ No ☐	Note: Attach record with media, location, depth, etc.	

RECOMMENDATION

No Further Action (Check appropriate box below):	LIST on Confirmed and Suspected Contaminated Sites List: ☒
Release or threatened release does not pose a threat ☐	
No release or threatened release ☐	
Refer to program/agency (Name: _____) ☐	
Independent Cleanup Action Completed (contamination removed) ☐	

COMPLAINT (Brief Summary of ERTS Complaint):

Phase 1 & 2 ESAs were submitted to Ecology by GeoTech Consultants on behalf of their client and the seller of the property in 2009, Ballard-Bernhard Property, LLC.

CURRENT SITE STATUS (Brief Summary of why Site is recommended for Listing or NFA):

This II was referred to Roger Nye but not immediately completed. PCE levels in GW are high enough to trigger vapor intrusion concerns in a building on site. It is unknown if the source of contamination is from this property or up-gradient adjacent sites (Tux Shop, CSID 1450 and Unocal 5479, CSID 11366). Due to the high levels of PCE and TPH in GW, it is recommended the site be listed on the CSCSL.

Investigator: Roger Nye / Donna Musa

Date Submitted: 10/27/2016

OBSERVATIONS☐**Please check this box if you included information on the Supplemental Page at end of report.**

Description (If site visit made, please be sure to include the following: site observations, site features and cover, chronology of events, sources/past practices likely responsible for contamination, presence of water supply wells and other potential exposure pathways, etc.):

A Phase I and Phase II were done in 2009 on the "Hollywood Video" Property (not a previously known site) by a potential purchaser. There was limited soil contamination (TPH) found on the property and high levels of solvents (PCE) and TPH in the groundwater. The Hollywood Video Property is down gradient from two adjacent Sites that were ranked in 2013. They are the Tux Shop (CSID 1450) and Unocal 5479 (CSID 11366). Although it seems clear that the solvent contamination in groundwater on the property is from the Tux Shop Site, it is unknown if the TPHs are from the Unocal Site or from the operation of an historic service station on the Hollywood Video Property. The PCE levels in ground water on the property are high enough to trigger VI concerns in a building there.

The owner of the Hollywood Video Property is
"ETI4 LLC" (UBI: 602-925-996)
2030 Dexter Avenue N #400
Seattle, WA 98109

William Oseran, Manager
Tax Parcel # 2768300405

Documents reviewed:

- Phase I Environmental Site Assessment, 5314 15th Avenue Northwest, Seattle (Ballard), Washington. Prepared For: Safeway Inc., 1121 124th Avenue NE, Bellevue, Washington. Environmental Partners, Inc., Bellevue, Washington. November 29, 2001.
- Additional Phase II Environmental Site Assessment Letter Report, 5314 15th Avenue Northwest, Seattle, Washington. Environmental Partners, Inc., Bellevue Washington. May 2, 2002.
- Phase 1 and Phase 2 Reports Cover Letter, Hollywood Video Property, Seattle, Washington. Geotech Consultants, Inc., Bellevue, Washington. June 9, 2009.

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
Non-Halogenated Organics	Phenolic Compounds						Compounds containing phenols (Examples: phenol; 4-methylphenol; 2-methylphenol)
	Non-Halogenated Solvents	C					Organic solvents, typically volatile or semi-volatile, not containing any halogens. To determine if a product has halogens, search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is not a Cl, I, Br, F in the formula, it's not halogenated. (Examples: acetone, benzene, toluene, xylenes, methyl ethyl ketone, ethyl acetate, methanol, ethanol, isopropanol, formic acid, acetic acid, stoddard solvent, Naptha). <i>Use this when TEX contaminants are present independently of gasoline.</i>
	Polynuclear Aromatic Hydrocarbons (PAH)	C					Hydrocarbons composed of two or more benzene rings.
	Tributyltin						The main active ingredients in biocides used to control a broad spectrum of organisms. Found in antifouling marine paint, antifungal action in textiles and industrial water systems. (Examples: Tributyltin; monobutyltin; dibutyltin)
	Methyl tertiary-butyl ether	B	B				MTBE is a volatile oxygen-containing organic compound that was formerly used as a gasoline additive to promote complete combustion and help reduce air pollution.
	Benzene	C	C				Benzene
	Other Non-Halogenated Organics	C	C				TEX
	Petroleum Diesel	C	C				Petroleum Diesel
	Petroleum Gasoline	C	C				Petroleum Gasoline
	Petroleum Other	B	B				Oil-range organics
Halogenated Organics (see notes at bottom)	PBDE						Polybrominated di-phenyl ether
	Other Halogenated Organics		C				Other organic compounds with halogens (chlorine, fluorine, bromine, iodine). search HSDB (http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB) and look at the Chemical/Physical Properties, and Molecular Formula. If there is a Cl, I, Br, F in the formula, it is halogenated. (Examples: Hexachlorobutadiene; hexachlorobenzene; pentachlorophenol)
	Halogenated solvents						PCE, chloroform, EDB, EDC, MTBE
	Polychlorinated Biphenyls (PCB)						Any of a family of industrial compounds produced by chlorination of biphenyl, noted primarily as an environmental pollutant that accumulates in animal tissue with resultant pathogenic and teratogenic effects
	Dioxin/dibenzofuran compounds (see notes at bottom)						A family of more than 70 compounds of chlorinated dioxins or furans. (Examples: Dioxin; Furan; Dioxin TEQ; PCDD; PCDF; TCDD; TCDF; OCDD; OCDF). <i>Do not use for 'dibenzofuran', which is a non-chlorinated compound that is detected using the semivolatile organics analysis 8270</i>
Metals	Metals - Other						Cr, Se, Ag, Ba, Cd
	Lead		B				Lead
	Mercury						Mercury
	Arsenic						Arsenic
Pesticides	Non-halogenated pesticides						Pesticides without halogens (Examples: parathion, malathion, diazinon, phosmet, carbaryl (sevin), fenoxycarb, aldicarb)
	Halogenated pesticides						Pesticides with halogens (Examples: DDT; DDE; Chlordane; Heptachlor; alpha-beta and delta BHC; Aldrin; Endosulfan, dieldrin, endrin)

CONTAMINANT GROUP	CONTAMINANT	SOIL	GROUNDWATER	SURFACE WATER	AIR	SEDIMENT	DESCRIPTION
Other Contaminants	Radioactive Wastes						Wastes that emit more than background levels of radiation.
	Conventional Contaminants, Organic						Unspecified organic matter that imposes an oxygen demand during its decomposition (Example: Total Organic Carbon)
	Conventional Contaminants, Inorganic						Non-metallic inorganic substances or indicator parameters that may indicate the existence of contamination if present at unusual levels (Examples: Sulfides, ammonia)
	Asbestos						All forms of Asbestos. Asbestos fibers have been used in products such as building materials, friction products and heat-resistant materials.
	Other Deleterious Substances						Other contaminants or substances that cause subtle or unexpected harm to sediments (Examples: Wood debris; garbage (e.g., dumped in sediments))
	Benthic Failures						Failures of the benthic analysis standards from the Sediment Management Standards.
	Bioassay Failures						For sediments, a failure to meet bioassay criteria from the Sediment Management Standards. For soils, a failure to meet TEE bioassay criteria for plant, animal or soil biota toxicity.
Reactive Wastes	Unexploded Ordnance						Weapons that failed to detonate or discarded shells containing volatile material.
	Other Reactive Wastes						Other Reactive Wastes (Examples: phosphorous, lithium metal, sodium metal)
	Corrosive Wastes						Corrosive wastes are acidic or alkaline (basic) wastes that can readily corrode or dissolve materials they come into contact with. Wastes that are highly corrosive as defined by the Dangerous Waste Regulation (WAC 173-303-090(6)). (Examples: Hydrochloric acid; sulfuric acid; caustic soda)

(fill in contaminant matrix below with appropriate status choice from the key below the table)

Status choices for contaminants	
Contaminant Status	Definition
B— Below Cleanup Levels (Confirmed)	The contaminant was tested and found to be below cleanup levels. (Generally, we would not enter each and every contaminant that was tested; for example if an SVOC analysis was done we would not enter each SVOC with a status of "below". We would use this for contaminants that were believed likely to be present but were found to be below standards when tested)
S— Suspected	The contaminant is suspected to be present; based on some knowledge about the history of the site, knowledge of regional contaminants, or based on other contaminants known to be present
C— Confirmed Above Cleanup Levels	The contaminant is confirmed to be present above any cleanup level. For example—above MTCA method A, B, or C; above Sediment Quality Standards; or above a presumed site-specific cleanup level (such as human health criteria for a sediment contaminant).
RA— Remediated - Above	The contaminant was remediated, but remains on site above the cleanup standards (for example—capped area).
RB— Remediated - Below	The contaminant was remediated, and no area of the site contains this contaminant above cleanup standards (for example— complete removal of contaminated soils).

Halogenated chemicals and solvents: Any chemical compound with chloro, bromo, iodo or fluoro is halogenated; those with eight or fewer carbons are generally solvents (e.g. halogenated methane, ethane, propane, butane, pentane, hexane, heptane or octane) and may also be used for or registered as pesticides or fumigants. Most are dangerous wastes, either listed or categorical. Organic compounds with more carbons are almost always halogenated pesticides or a contaminant or derivative. Referral to the HSDB is recommended if you are unfamiliar with a chemical name or compound, as it contains useful information about synonyms, uses, trade names, waste codes, and other regulatory information about most toxic or potentially toxic chemicals.

Dibenzodioxins and dibenzofurans are normalized to a combined equivalent toxicity based on 2,3,7,8-tetrachloro-p-dibenzodioxin as set out in WAC 173-340-708(8)(d) and in the Evaluating the Toxicity and Assessing the Carcinogenic Risk of Environmental Mixtures using Toxicity Equivalency Factors Focus Sheet (<https://fortress.wa.gov/ecy/clarc/FocusSheets/tef.pdf>). Results may be reported as individual compounds and isomers (usually lab results), or as a toxic equivalency value (reports).

FOR ECOLOGY II REVIEWER USE ONLY (For Listing Sites):

How did the Site come to be known: ☒ **Site Discovery (received a report):** 6/16/2009 (Date Report Received)
☐ **ERTS Complaint**
☐ **Other (please explain):** _____

Does an Early Notice Letter need to be sent: ☒ Yes ☐ No
If *No*, please explain why: _____

NAICS Code (if known): _____
Otherwise, briefly explain how property is/was used (i.e., gas station, dry cleaner, paint shop, vacant land, etc.):

Site Unit(s) to be created (Unit Type): ☒ Upland (includes VCP & LUST) ☐ Sediment
If multiple Units needed, please explain why: _____

Cleanup Process Type (for the Unit): ☒ No Process ☐ Independent Action
☐ Voluntary Cleanup Program ☐ Ecology-supervised or conducted
☐ Federal-supervised or conducted

Site Status: ☒ Awaiting Cleanup ☐ Construction Complete – Performance Monitoring
☐ Cleanup Started ☐ Cleanup Complete – Active O&M/Monitoring
☐ No Further Action Required

Site Manager (Default: _____): Northwest Region

Specific confirmed contaminants include:

D, G, BTEX, PAH in Soil

D, G, BTEX, TCE, PCE in Groundwater

_____ in Other (specify matrix: _____)

Facility/Site ID No. (if known):

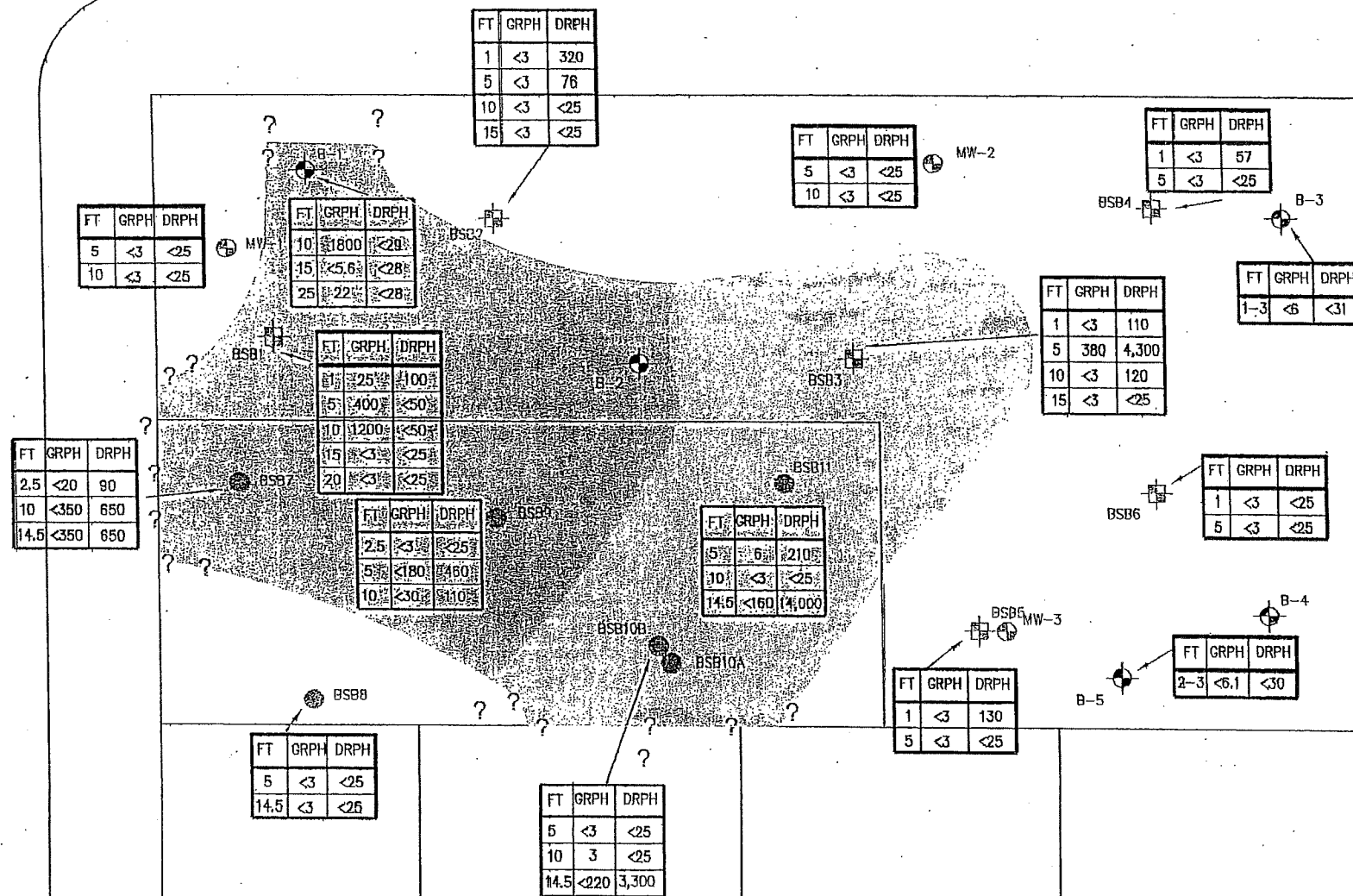
14234

Cleanup Site ID No. (if known):

13232

COUNTY ASSESSOR INFO: Please attach to this report a copy of the tax parcel/ownership information for each parcel associated with the site, as well as a parcel map illustrating the parcel boundary and location.

NW 54TH STREET



KEY



BORINGS BY GEO GROUP NORTHWEST



EPI BORING LOCATIONS


 AREAS OF SOIL WITH
GRPH ABOVE 30 MG/KG
(QUERIED WHERE UNCERTAIN)

 AREAS OF SOIL WITH
DRPH ABOVE 2,000 MG/KG
AND GRPH ABOVE 30 MG/KG
(QUERIED WHERE UNCERTAIN)

FT	GRPH	DRPH
2-3	<6.1	<30

 GRPH AND DRPH
CONCENTRATIONS
IN mg/kg VS DEPTH

 ENVIRONMENTAL
PARTNERS INC

 FIGURE 4
SOIL SAMPLING RESULTS FOR
GRPH AND DRPH IN mg/kg WITH
ESTIMATED EXTENT OF IMPACT

PROJECT

082165.1

 PREPARED
FOR

SAFEWAY INC.

LOCATION

 15TH AVENUE NORTHWEST
BALLARD, WA

 SHEET
1 of 1

 DRAWN BY
BPS

 REVIEWED BY
TCM

 DATE
2/20/02

SCALE: 1" = 25'

NW 54TH STREET

SIDEWALK

SIDEWALK

1433 NW 54TH STREET

 5314 15TH AVENUE NW
(ONE STORY CONCRETE)

5300 15TH AVENUE NW

1446 15TH AVENUE NW

1440 15TH AVENUE NW

1436 15TH AVENUE NW

KEY

B-5

BSB5

BSB7

 MW-3
88.60

BORINGS BY GEO GROUP NORTHWEST

EPI BORING LOCATION (HSA)

EPI BORING LOCATION (PROBE)

EPI MONITORING WELL LOCATION

 WITH 2/13/02 WATER TABLE
ELEVATION


CATCH BASIN


 GROUND WATER
ELEVATION CONTOUR

 CONTOURS PRODUCED IN SUMMER 7:0 USING A
TRIANGULATION WITH LINEAR INTERPOLATION

 ENVIRONMENTAL
PARTNERS INC

PROJECT 082165.1

 PREPARED
FOR SAFEWAY INC.

 LOCATION 15TH AVENUE NORTHWEST
BALDWIN, WA

 SHEET
1 of 1

 DRAWN BY
BPS

 REVIEWED BY
TCM

 DATE
2/15/02

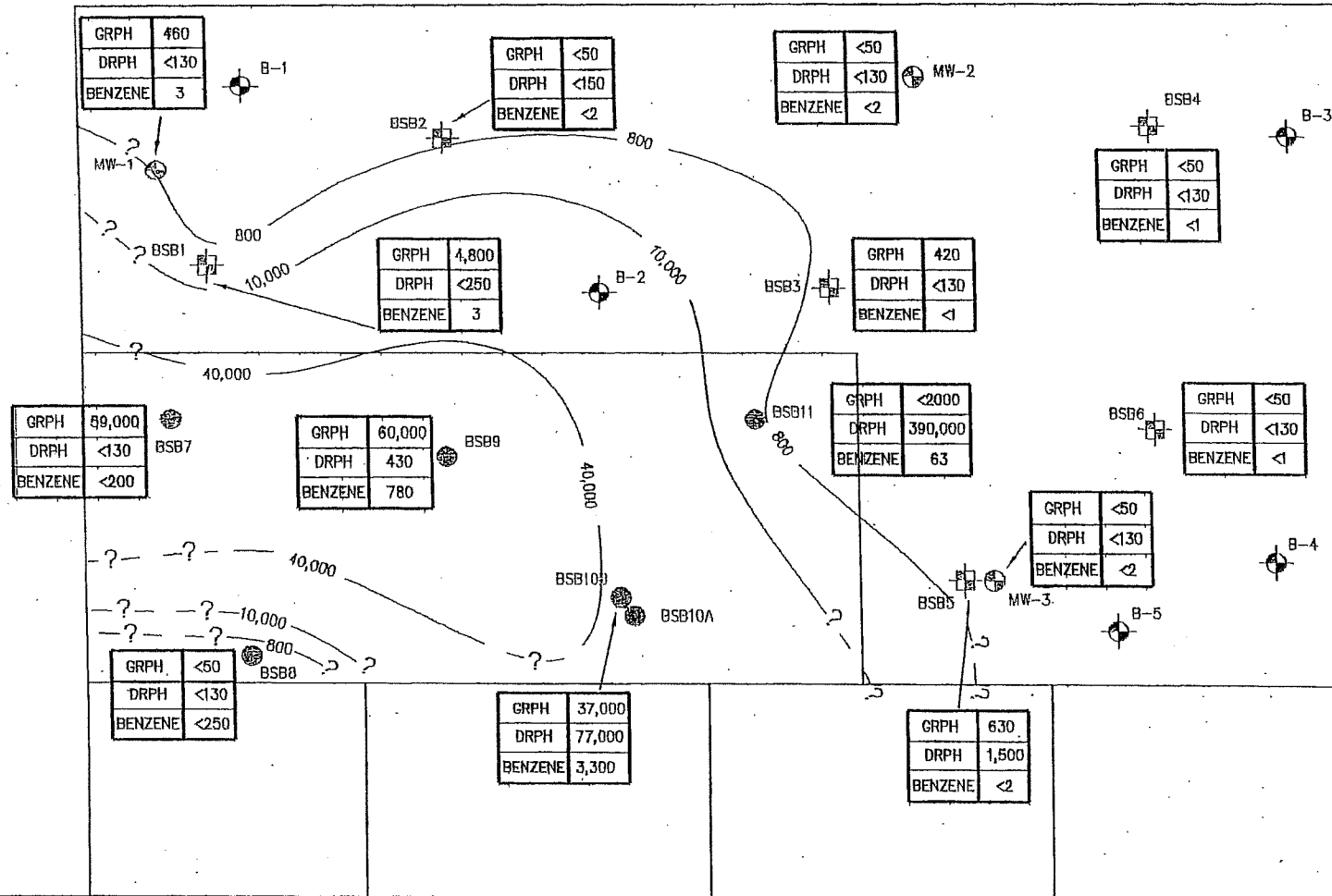
 FIGURE 3
SITE REPRESENTATION WITH GROUND
WATER ELEVATION CONTOURS

SCALE: 1" = 25'



NW 54TH STREET

15TH AVENUE NW



KEY

B-5 BORINGS BY GEO GROUP NORTHWEST

BSB5 EPI BORING LOCATIONS

BSB7 EPI BORING LOCATION (PROBE)

MW-3 EPI MONITORING WELL LOCATION

GRPH	310
DRPH	88
BENZENE	63

CONCENTRATIONS IN µg/L
GRPH-GASOLINE RANGE
PETROLEUM HYDROCARBONS
DRPH-DIESEL RANGE
PETROLEUM HYDROCARBONS

GRPH GROUND WATER
CONTAMINATION CONTOUR

CONTOURS DASHED AND
QUERIED WHERE UNCERTAIN
CONTOURS PRODUCED IN SURFER 7.0 USING A MINIMUM CURVATURE TECHNIQUE

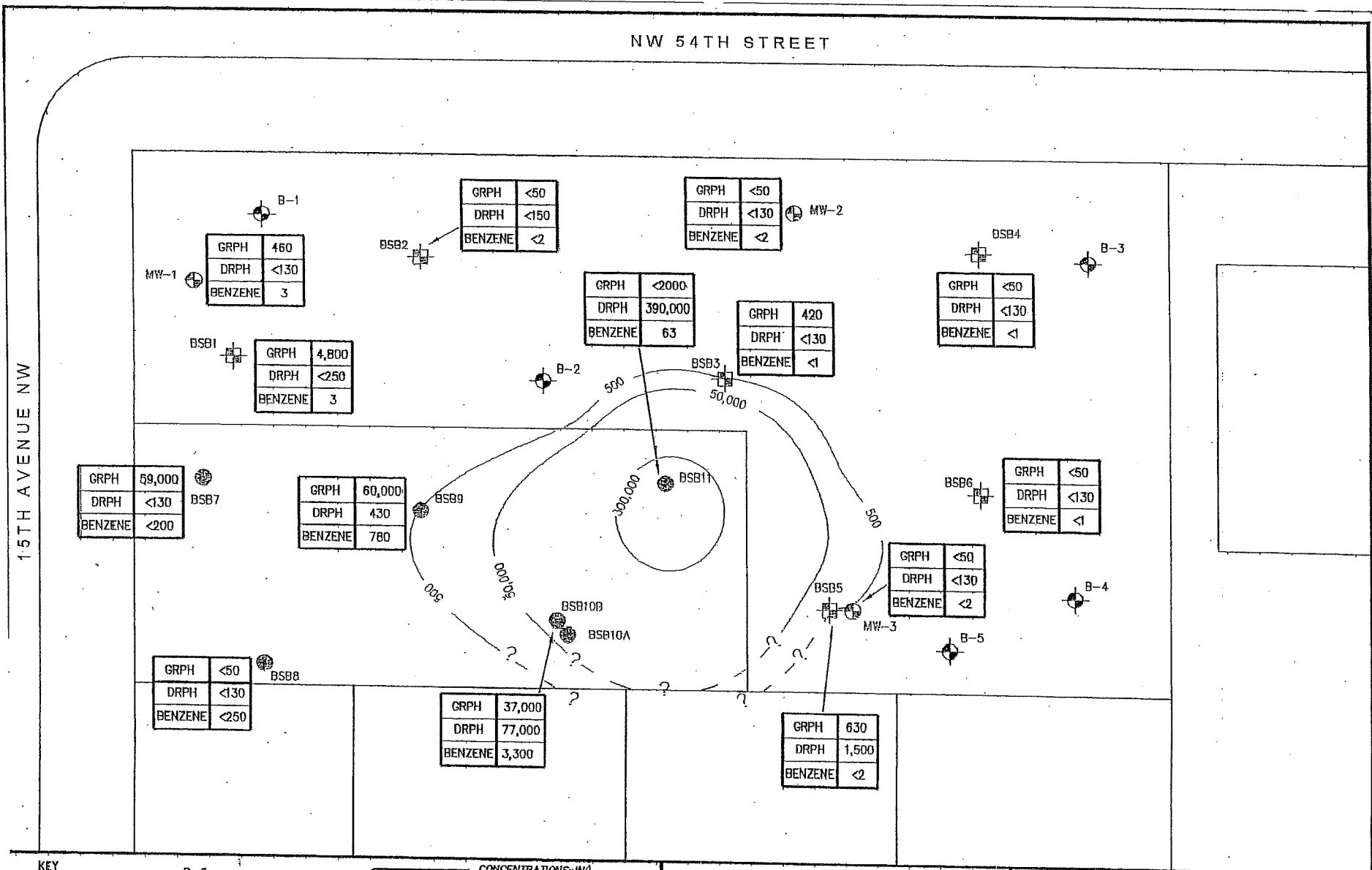
ENVIRONMENTAL
PARTNERS INC

FIGURE 5
GROUND WATER SAMPLING RESULTS
FOR GRPH, DRPH, AND BENZENE
WITH GRPH CONCENTRATION CONTOURS

PROJECT	082165.1		
PREPARED FOR	SAFEWAY INC.		
LOCATION	15TH AVENUE NORTHWEST BALLARD, WA		
SHEET 1 of 1	DRAWN BY DKM	REVIEWED BY TCM	DATE 2/20/02



SCALE: 1" = 25'



KEY

- B-5 BORINGS BY GEO GROUP NORTHWEST
- BSB5 EPI BORING LOCATIONS
- BSB7 EPI BORING LOCATION (PROBE)
- MW-3 EPI MONITORING WELL LOCATION

GRPH	310
DRPH	88
BENZENE	63

CONCENTRATIONS IN $\mu\text{L/L}$
 GRPH-GASOLINE RANGE
 PETROLEUM HYDROCARBONS
 DRPH-DIESEL RANGE
 PETROLEUM HYDROCARBONS

DRPH GROUND WATER
 CONTAMINATION CONTOUR

CONTOURS DASHED AND
 QUERIED WHERE UNCERTAIN

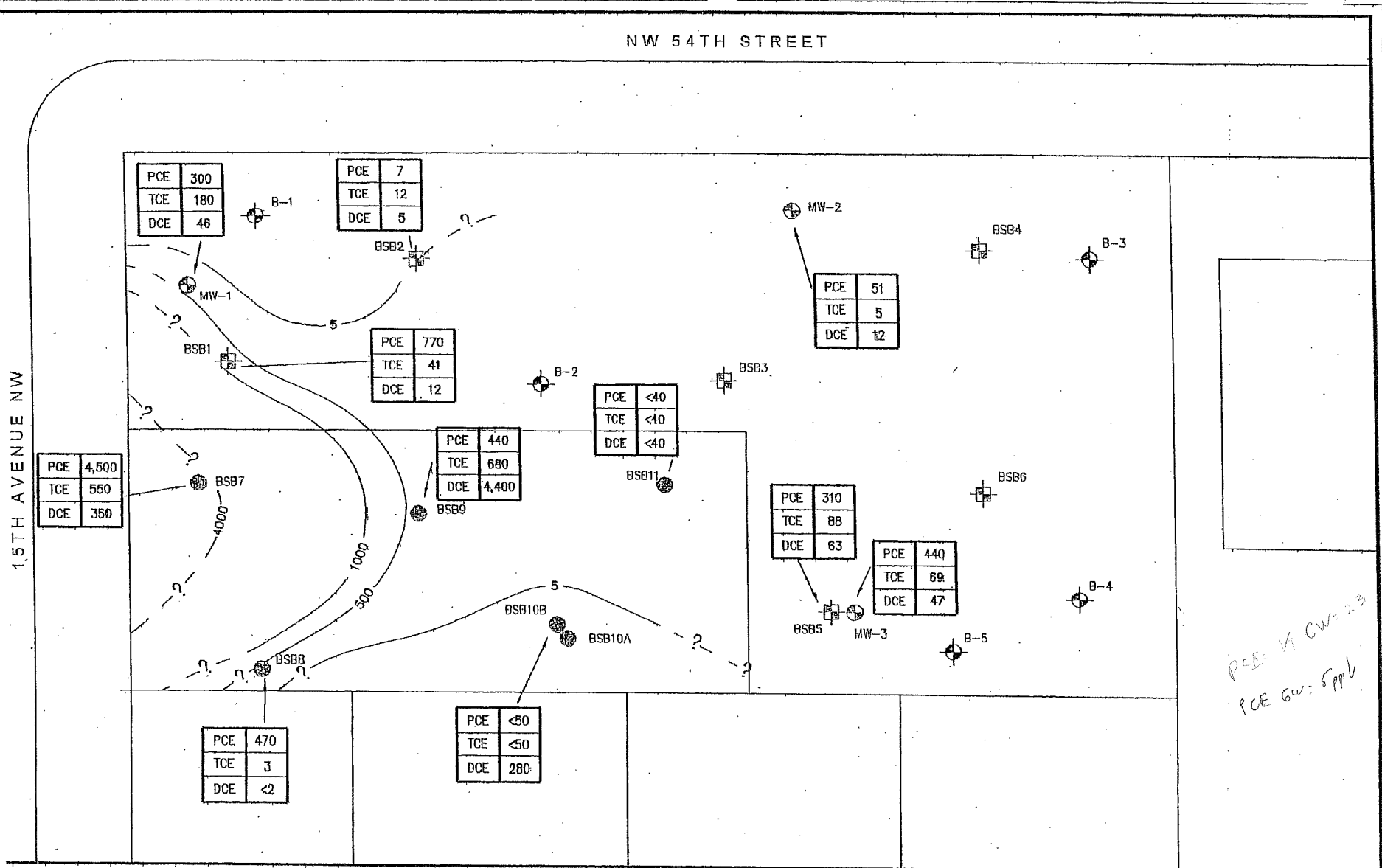
CONTOURS PRODUCED IN SURFER 7.0 USING A MINIMUM CURVATURE TECHNIQUE



ENVIRONMENTAL
 PARTNERS INC

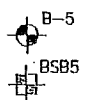
FIGURE 6
 GROUND WATER SAMPLING RESULTS
 FOR GRPH, DRPH, AND BENZENE
 WITH DRPH CONCENTRATION CONTOURS

PROJECT	082165.1		
PREPARED FOR	SAFEWAY INC.		
LOCATION	15TH AVENUE NORTHWEST BALLARD, WA		
SHEET 1 of 1	DRAWN BY DKM	REVIEWED BY TCM	DATE 2/20/02



PCE GW-23
PCE GW-5 ppb

KEY



B-5 BORINGS BY GEO GROUP NORTHWEST

BSB5 EPI BORING LOCATIONS

BSB7 EPI BORING LOCATION (PROBE)

MW-3 EPI MONITORING WELL LOCATION

PCE	310
TCE	88
DCE	63

CONCENTRATIONS: µg/L

PCE - TETRACHLOROETHENE

TCE - TRICHLOROETHENE

DCE - CIS 1,2-DICHLOROETHENE

PCE GROUND WATER CONCENTRATION CONTOUR µg/L

? CONTOURS DASHED AND QUERIED WHERE UNCERTAIN

CONTOURS CREATED IN SURFER 7.0 USING A MINIMUM CURVATURE METHOD



ENVIRONMENTAL PARTNERS INC.

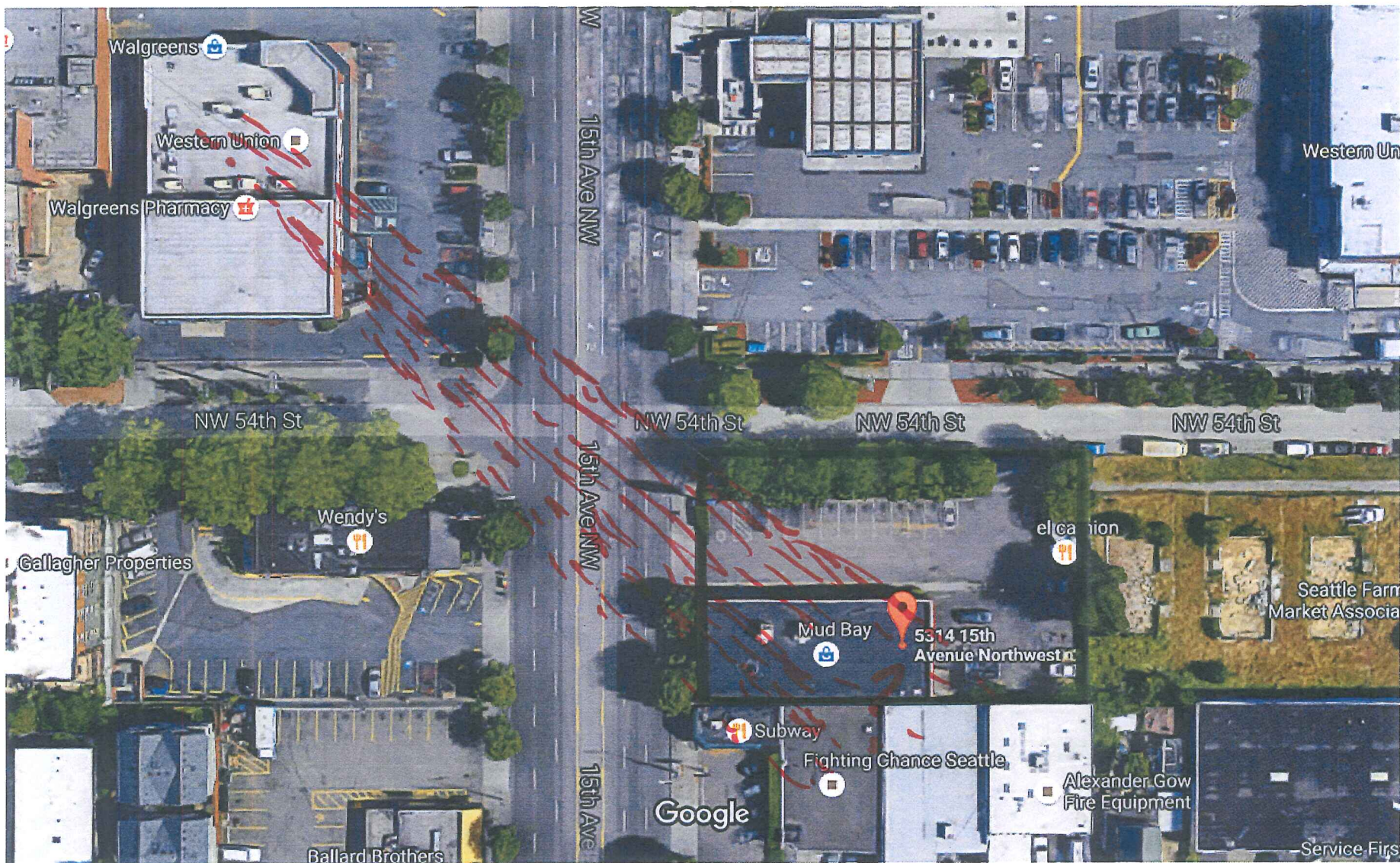
FIGURE 7
GROUND WATER SAMPLING RESULTS
FOR CHLORINATED VOCs IN µg/L

PROJECT	082185.1
PREPARED FOR	SAFEWAY INC.
LOCATION	5314 15TH AVENUE NORTHWEST BALLARD, WA
SHEET 1 of 1	DRAWN BY DKM REVIEWED BY TCM DATE 2/19/02

Property owner: ETI 4 LLC / William Oseran Manager
2030 Dexter Avenue N, # 400
Seattle, WA 98109

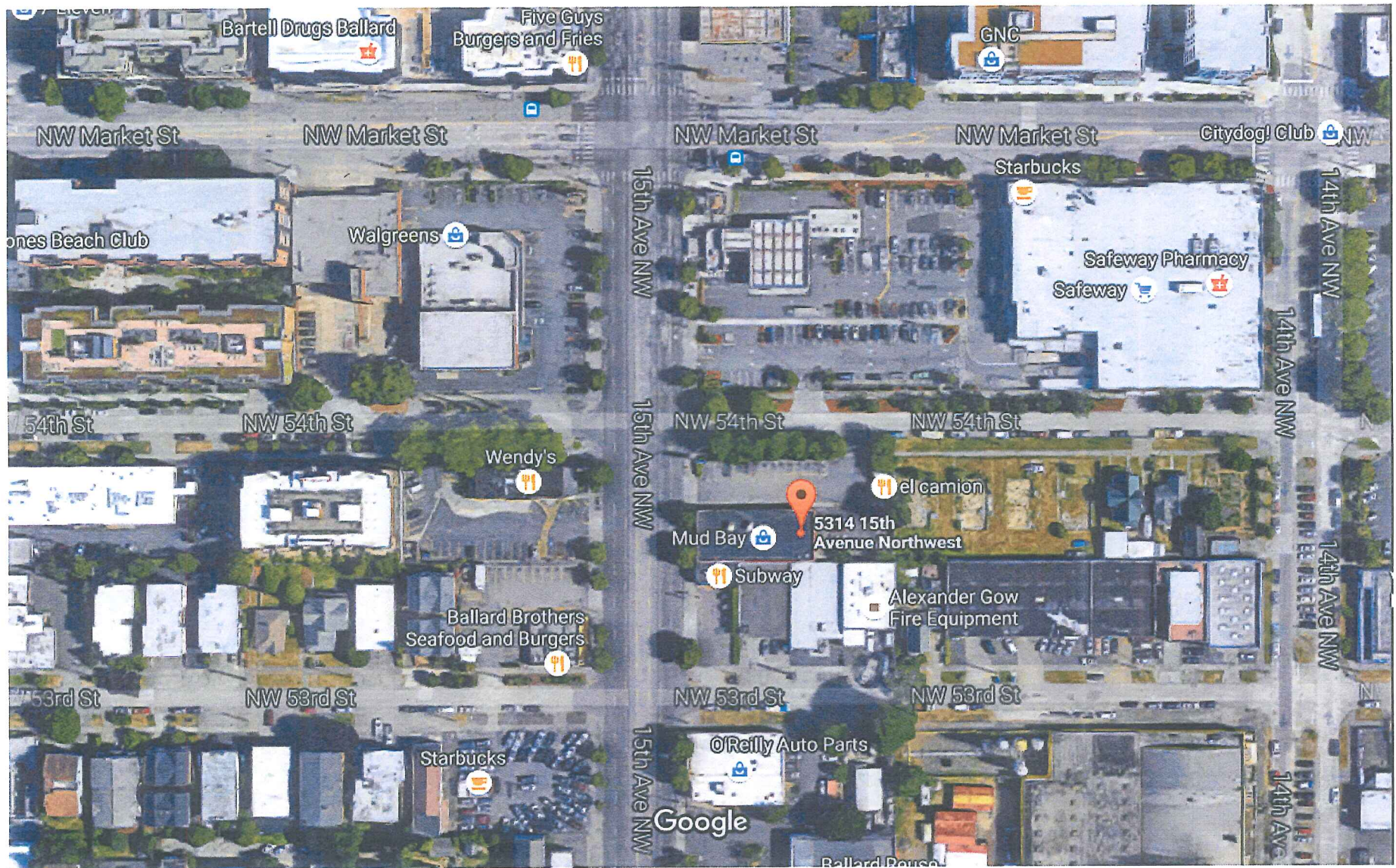
Google Maps 5314 15th Ave NW

TAX Parcel: 2768300405



Apparent Solvent / TPH? GW plume — Hollywood Video Property —

Google Maps 5314 15th Ave NW





Legend:

- Property Location (approximate)
- Former Building Location (approximate)
- Excavated Impacted Soil (approximate)
- Remaining Impacted Soil (approximate)

Notes:

1. All locations are approximate, and not to scale.



Unocal 5479
5409 15th Avenue NW
Seattle, WA 98107

Site Overview Map

CSID 11366
CSID11366.vsd



Legend:

- Property Location (approximate)
- Sump Excavation Location (approximate)
- Former Building Location (approximate)

Notes:

1. All locations are approximate, and not to scale.



The Tux Shop
5409 15th Avenue NW
Seattle, WA 98107

Site Overview Map

CSID 1450
 CSID1450.vsd