

# Draft Cleanup Action Plan

**View Ridge Plaza  
220 Olympic Boulevard  
Everett, Washington**

March 18, 2020  
Terracon Project No. 81197152

Cleanup Site ID 12644  
Facility Site ID 20079  
VCP Project No. NW3244

**Prepared for:**  
Catalyst Capital Holdings, LLC  
Los Angeles, California

**Prepared by:**  
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**Terracon**

Environmental   ■   Facilities   ■   Geotechnical   ■   Materials

March 18, 2020



Catalyst Capital Holdings, LLC  
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Attn: Mr. Steven Cody  
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Re: **Draft Cleanup Action Plan**  
View Ridge Plaza  
220 Olympic Boulevard  
Everett, Washington  
Terracon Project No.: 81197152  
VCP Project No. NW3244


Dear Mr. Cody:

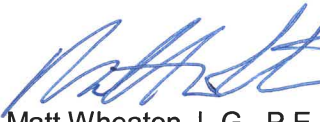
Terracon Consultants, Inc. (Terracon) is pleased to submit our Draft Cleanup Action Plan (CAP) for the above referenced Site. The services described herein were performed in general accordance with our Proposal No. P81197373, dated July 12, 2019.

Terracon appreciates this opportunity to provide environmental services to Catalyst Capital Holdings, LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,  
**Terracon Consultants, Inc.**

  
Kyle Bennett, G.I.T.  
Staff Geologist

  
Mark White, P.G.  
Principal

  
Matt Wheaton, L.G., P.E.  
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- Exhibit 3. Site Diagram
- Exhibit 4. Detailed Site Diagram
- Exhibit 5. Soil Analytical Concentrations Map
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- Exhibit 9. Groundwater Flow and Gradient Map April 2019
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- Exhibit 11. Proposed Remedial Excavation, Groundwater Monitoring Wells, and Horizontal Injection Wells Plan

Appendix B. Tables

- Table 1. Cumulative Summary of Soil Analytical Results
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## ACRONYMS AND ABBREVIATIONS

ARARs	Applicable, relevant, and appropriate requirements
ASTM	American Society for Testing and Materials
bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and xylenes
CAP	Cleanup Action Plan
COC	Contaminant/Chemical of Concern
CSCSL	Confirmed and Suspected Contaminated Sites List
CSM	Conceptual Site Model
cVOC	Chlorinated volatile organic compound
DCE	1,2-Dichloroethene
Ecology	Washington State Department of Ecology
EMMP	Environmental Media Management Plan
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FS	Feasibility Study
ft/ft	Feet per foot
IDW	Investigation-derived waste
JEM	Johnson and Ettinger simplified model
µg/L	Microgram per liter
µg/L-air	Microgram per liter - air
mg/kg	Milligram per kilogram
MS/MSD	Matrix spike/matrix spike duplicate
MTCA	Model Toxics Control Act
OSHA	Occupational Health and Safety Administration
PCE	Perchloroethylene (also known as tetrachloroethylene)
PID	Photoionization detector
POC	Point of compliance
ppm	Parts per million
PVC	Polyvinyl chloride

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QA/QC	Quality assurance/quality control
RAO	Remedial Action Objective
RCW	Revised Code of Washington
RECs	Recognized Environmental Conditions
RRIFS	Revised Remedial Investigation and Feasibility Study
TCE	Trichloroethylene
TEE	Terrestrial Ecological Evaluation
TOC	Top of casing
TPH	Total petroleum hydrocarbons
UIC	Underground injection control
VC	Vinyl chloride
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VISL	Vapor Intrusion Screening Level
WAC	Washington State Administrative Code

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## EXECUTIVE SUMMARY

Terracon has prepared this Cleanup Action Plan (CAP) for the approximately 1.89-acre Property located at 220 Olympic Boulevard, Everett, Washington (Snohomish County Parcel No. 00606200004102). The Property is currently developed with three structures (the View Ridge Plaza main retail center, a fruit stand, and a coffee kiosk) and an asphalt-paved parking area. The View Ridge Plaza building structure is an approximately 22,000 square foot, single-story, slab-on-grade structure. The property was sold in 2016 by the Everett Masonic Cooperation to the Market Place LLC, the current property owner. Catalyst Capital Holdings, LLC., is under contract to purchase the partially-vacant Site and is planning to demolish the existing View Ridge Plaza and redevelop the Property with an approximate 22,000-square foot, slab on-grade, multi-story, commercial building.

The View Ridge Plaza building is mostly vacant and was previously occupied with various commercial retail businesses, including a dry cleaner, restaurant, barber shop, masonic conference hall/lodge, and office spaces. The tenant spaces adjacent to the former dry cleaner space are currently unoccupied. The only tenant spaces currently occupied are the Insurance Agency and the former Head Start tenant space which is used periodically and only for storage. The dry cleaner operated on the western portion of the Site in the southwest portion of the View Ridge Plaza building, from 1960 to 2014. Anecdotal information suggested a spill of tetrachloroethylene (also known as perchloroethylene [PCE]), commonly used as a dry-cleaning fluid, reportedly occurred at the dry cleaner around 1978. Various environmental investigations were conducted in association with the former dry-cleaning facility between October 2013 and June 2018. The investigations included soil, groundwater, soil vapor, and indoor air sampling. Multiple Chlorinated Volatile Organic Compounds (cVOCs) were detected in the soil, groundwater, soil vapor, and indoor air samples at concentrations above the Washington State Model Toxics Control Act (MTCA) Method A, Method B cleanup levels (CUL), and/or screening levels; specifically, PCE and various PCE breakdown products, such as trichloroethylene (TCE), cis-1,2-dichloroethylene (cDCE), trans-1,2-dichloroethylene (tDCE), vinyl chloride (VC), 1,1-dichloroethylene (1,1-DCE), and chloroform.

Subsequently, the Site was then listed in the Washington Department of Ecology (Ecology) Confirmed and Suspected Contaminated Sites List (CSCSL) database in June 2014 (Cleanup Site ID 12644, Facility Site ID 20079), listed as View Ridge Plaza/Everett Masonic Corporation located at 220 Olympic Boulevard, Everett, Washington.

Following the investigations and sampling previously completed at the Site, data gaps in contaminant distribution remained for both soil and groundwater. Based on the previous investigations, Terracon prepared and subsequently implemented two supplemental subsurface investigations (April 2019 and June 2019) at the Site as a part of a Remedial Investigation (RI). The April 2019 and June 2019 investigations included the installation of a total of seven

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groundwater monitoring wells to assess the extent of cVOCs in soil and groundwater at the Site. The June 2019 investigation also identified the location of the culvert and off-site sewers and collected upgradient and downgradient water samples from the Dogwood Elm Creek culvert to assess potential creek impacts.

Based on Terracon's April 2019 and June 2019 investigations, cVOCs concentrations in soil and groundwater samples collected from the newly installed monitoring wells (MW-4 through MW-10) did not exceed MTCA Method A cleanup levels. Furthermore, sampling in upgradient and downgradient locations from the Dogwood Elm Creek culvert did not identify detectable concentrations of cVOCs.

In general, Terracon encountered fill material consisting of sand and gravel mixed with clay below the pavement. Brown silt and sand was encountered below the fill followed by tan clay and/or silt to boring termination depths. The clay layer was shallower in the western portion and deeper in the eastern portion of the site. The sand layer varied in thickness from about 2 feet to 8 feet, with the greater thicknesses present on the eastern portion of the site.

The following is a summary of findings:

- n cVOCs are contaminants of concern (COCs) in soil and groundwater in the western portion of the Site in proximity to the former dry cleaner space.
- n MTCA Method A soil and groundwater cleanup levels have been selected for this project Site. Where a MTCA Method A cleanup level has not been established for a compound, the MTCA Method B cleanup level will be used.
- n The point of compliance (POC) for soil contamination beneath the Site is approximately 15 feet below ground surface (bgs). The POC for groundwater throughout the Site consists of the uppermost level of the saturated zone extending vertically to the lowest most depth that could potentially be affected by the COCs [WAC 173-340-720(8)(b)].

Following submittal and review of the October 31, 2019, Revised Remedial Investigation and Feasibility Report (RR/FS), Ecology responded on November 15, 2019, with an opinion email approving and agreeing that impacts at the Site had been fully characterized and that the proposed cleanup action will likely result in a No Further Action determination.

The selected cleanup action alternative detailed in Terracon's RRI/FS includes the remedial excavation of contaminated soils in the area of the former dry cleaner to an anticipated depth of approximately 23 feet bgs. Following excavation, the remedial amendment consisting of an in-situ chemical reduction (ISCR) compound, and horizontal slotted injection piping will be placed in the excavation prior to backfill. The purpose of the amendment is to continue to break down residual groundwater impacts, if present, within and beyond the extents of the excavation area. If groundwater cleanup is not achieved from the initial cleanup activities and through monitored

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natural attenuation, in-situ chemical treatment can be implemented through the installed injection wells. This will consist of injecting chemical reduction and anaerobic biodegradation products to break down cVOC impacts to groundwater.

In addition, the existing groundwater monitoring well network within the limits of the remedial excavation will be decommissioned prior to construction; however, replacement monitoring wells will be installed as a part of this cleanup alternative. Upon completing four consecutive quarters of groundwater monitoring results that comply with MTCA CUL goals, a request for a No Further Action (NFA) determination for the Site will be requested from Ecology.

At this time, this CAP is presented to Ecology with a request for opinion that the selected cleanup action, as detailed within the body of this document, will result in an NFA Likely for the Site.

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### **1.0 INTRODUCTION**

This document presents the Cleanup Action Plan (CAP) for the View Ridge Plaza Site located at 220 Olympic Boulevard in Everett, Washington (herein referred to as the Site). The Site, as defined by Ecology, is the area where contamination has come to be located and can consist of a portion or all of one tax parcel or portions or all of multiple tax parcels, including ROWs. The general location of the Site is shown on Exhibit 1 of Appendix A. A CAP is required as part of the Site cleanup process under Chapter 173-340 of the Washington Administrative Code (WAC), Model Toxics Control Act Cleanup Regulations (MTCA).

Following submittal and review of Terracon's Revised Remedial Investigation and Feasibility Report (RRIFS), dated October 31, 2019, Ecology responded on November 15, 2019, with an opinion email approving and agreeing that the impacts at the Site had been fully characterized and that the proposed cleanup action will likely result in no further action determination. Based on Ecology's response, Terracon prepared this CAP report for the selected cleanup action alternative for the Site.

The selected cleanup action for the Site includes the following:

- n Excavation and off-Property disposal of soils containing concentrations of COCs exceeding the MTCA Method A cleanup levels;
- n Installation of horizontal slotted pipes at the bottom of the remedial excavation for potential future remedial injections;
- n Addition of a remedial amendment to soil backfill during restoration of the remedial excavation; and
- n Acquiring a No Further Action determination letter for the Site.

This cleanup action is recommended because it is the most cost-effective remedy that provides a permanent solution to the maximum extent practicable for the contamination at the Site. Further, the estimated costs are not disproportionate to the environmental benefit obtained. It is the most reliable because both contaminated soils and groundwater will be remediated (via source removal) and the potential for residual on-Site contamination to migrate further down-gradient or vertically will be mitigated by the prolonged presence of anaerobic biodegradation product.

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Quarterly groundwater monitoring is also a component of this remedial option to ensure the effectiveness of the chemical degradation and natural attenuation and that the remedial action objective (RAO) is achieved. The RAO is likely to be achieved within a reasonable restoration timeframe.

### 1.1 Purpose

The purpose of the CAP is to describe the remedial alternative that will be implemented at the Site, to comply with the requirements for selection of a remedy under WAC 173-340-360, and achieve regulatory closure. The objective of the remedial alternative is to obtain a written determination issued by the Washington State Department Ecology (Ecology) that no further action is necessary at the Site. A Cleanup Action Report will be prepared after the cleanup action has been completed. The CAP addresses the remediation of the chemicals of concern (COCs) present in soil and groundwater beneath the Site and includes the steps required for implementation.

### 1.2 Current Property Use

The Site consists of a 1.89-acre property in Everett, Snohomish County, Washington, which is comprised of Snohomish County tax parcel 00606200004102. The Site is developed with three structures (the main retail center, a produce market, and a coffee kiosk) and an asphalt-paved parking area. The View Ridge Plaza building structure is an approximately 22,000 square foot, single-story, slab-on-grade structure. The tenant spaces adjacent to the former dry cleaner space are currently unoccupied. The only tenant spaces currently occupied are the Insurance Agency and the former Head Start tenant space which is used periodically and only for storage. The Site, as defined by Ecology, is the area where contamination has come to be located and can consist of a portion or all of one tax parcel or portions or all of multiple tax parcels, including ROWs. The property elevation ranges from approximately 310 to 290 feet above mean sea level, with an inward slope and a general gradient towards the northeast. A Site Location Map is included as Exhibit 1, an Aerial and Utility Map is included as Exhibit 2, and a Site Diagram is included as Exhibit 3, and a Detailed Site Diagram is included as Exhibit 4 in Appendix A.

The Site is adjoined to the north by residential apartments and single-family residents followed by 45<sup>th</sup> Street Southwest. The Site is adjoined to the east by Olympic Boulevard followed by South Everett Neighborhood Center, Our Saviors Lutheran Preschool, and single-family residents. The Site is adjoined to the south by a 76-branded fuel station and West Mukilteo Boulevard followed by a Brown Bear Car Wash, a church, single-family residents, and View Ridge Dental Center. Elm Street followed by single-family residents border the Site to the west.

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Catalyst Capital Holdings, LLC., is under contract to purchase the partially-vacant Site and is planning to demolish the existing View Ridge Plaza and redevelop the Property with an approximate 22,000-square foot, slab on-grade, multi-story, commercial building.

## 2.0 SITE DESCRIPTION AND BACKGROUND

The following section includes a description of the Property and a summary of previous work performed at the Property. For a detailed description of the geology, hydrology, and the previous investigations of the Property, refer to the RRIFS, dated October 15, 2019, provided under a separate cover.

### 2.1 Site Geology/Hydrogeology

#### Site Geology

According to the *Geologic Map of Everett 7.5 Minute Quadrangle, Washington* the area generally consists of glacial till and glacial outwash deposits. The glacial till deposits are mapped along the majority of the property and consists of non-sorted and non-stratified clay, silt, sand, and gravel with some boulders, and is generally very compact. The advanced glacial outwash deposits are mapped along the southern property boundary along West Mukilteo Boulevard and consists of unconsolidated sand with pebbles and cobbles. In general, during Terracon's investigations fill material consisting of sand and gravel mixed with clay was encountered below the pavement. Brown silt and sand was encountered below the fill followed by tan clay and/or silt to boring termination depths. The clay layer was shallower in the western portion and deeper in the eastern portion of the Property. The sand layer varied in thickness from about 2 feet to 8 feet, with the greater thicknesses present on the eastern portion of the Property. The boring logs attached in Appendix C detail the observed soil stratigraphy.

#### Site Hydrogeology

Terracon observed the first occurrence of groundwater during drilling at depths from 1 to 10 feet. Static groundwater levels in the groundwater monitoring wells in April and June ranged from 2.69 feet from TOC in MW-4 to 10.00 feet from TOC in MW-A.

Based on depth to water measurements and well survey data, the groundwater elevations at the on- and off-property groundwater monitoring wells ranged from 292.46 feet at MW-3 to 304.71 feet in monitoring well MW-C.

The Property generally slopes inward, with the lowest depression on the west-northwest portion of the Property. Based on groundwater elevation measurements collected during Terracon's groundwater monitoring events, groundwater flow direction at the property is generally inward towards the channelized portion of Dogwood Elm Creek and bending to the northeast, the general flow direction of Dogwood Elm Creek.

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Groundwater measurements are included in Table 3 of Appendix B. Groundwater flow direction and gradient are depicted on Exhibits 9 and Exhibit 10 of Appendix A.

### Site Surface Water

Terracon obtained utility maps from the City of Everett and identified that a portion of Dogwood Elm Creek is channelized through a 24-inch culvert pipe, approximately 12 feet below ground surface, and flows through the Property. The creek flows from the south to the north, flowing from the south-central portion of the Property, underneath the on-Property building and flowing off Property in the northeast corner of the Property where it is discharged from the pipe. On April 25, 2019, a Terracon field representative inspected and confirmed the culvert pipe's location, depth, and size, consistent with the City of Everett's utility maps. The Property utilities are depicted on Exhibit 2 of Appendix A.

## 2.2 Historical Property Use

According to reports provided by the client, the Property was first developed in 1959, and was originally operated as a supermarket and pharmacy. By the 1960s, a laundromat/dry cleaner, eventually replaced by a dry-cleaning only facility, was present in the southwest corner of the View Ridge Plaza building, the main retail center building (main building), and addressed as 220 Olympic Boulevard. Various dry-cleaning operations have reportedly occupied this tenant space from the 1960s until February 2015, when Olympic Cleaners ceased operations and vacated the building along with several other tenants. The property was sold in 2016 by the Everett Masonic Cooperation to the Market Place LLC, the current property owner.

The following section provides a summary of the findings and conclusions of environmental investigations conducted at the Property. The previous investigations are discussed in detail in the reports referenced in Section 2.3 below.

## 2.3 Summary of Previous Investigations

Based on the historical investigations conducted by Terracon and others at the Property, the Property is characterized with respect to the cVOC-related impacts associated with the historical dry-cleaning operations. Soil and groundwater beneath the Property have been impacted by concentrations of cVOC-related COCs above their respective MTCA Method A Cleanup Levels (CULs) and/or Method B CULs. A summary of soil and groundwater analytical results are included on Exhibit 5 through Exhibit 8 of Appendix A, and Table 1 and Table 2 of Appendix B. In summary, the following COCs and their respective CULs were proposed for the Property:

The selected MTCA CULs for soil and COCs are included below:

§ PCE – Method A cleanup level: 0.05 mg/kg

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- § TCE – Method A cleanup level: 0.03 mg/kg
- § cDCE – Method B cleanup level: 160 mg/kg
- § VC – Method B cleanup level: 0.67 mg/kg

The selected MTCA CULs for groundwater and COCs are included below:

- § PCE – Method A cleanup level: 5 µg/l
- § TCE – Method A cleanup level: 5 µg/l
- § cDCE – Method B cleanup level: 16 µg/l
- § VC – Method A cleanup level: 0.2 µg/l

The cVOCs soil and groundwater impacts are limited to the area in the immediate vicinity of the former dry cleaners located at the southwestern corner of the View Ridge Plaza building in the western portion of the property. The location of the cVOCs and the limited extent of the cVOCs within the dry cleaner facility indicates that historical operations are the source.

The soil impacts at the Property are areally assessed to the north, east, south, and west with borings MW-1, B-3, SB-7, SB-2, SB-8, SB-5, MW-2, DP-2, SB-3, and DP-1, where COCs were not detected above laboratory MRLs and/or MTCA CULs. The cVOCs impacts to soil do not appear to have migrated off-property.

The groundwater impacts at the Property are areally assessed to the north, east, south, and west with monitoring wells SB-1, SB-3, SB-6, and MW-2 thru MW-10, where COCs were not detected above laboratory MRLs and/or MTCA CULs. Although groundwater COCs were not detected in these monitoring wells, it can be assumed that the COCs exceeding MTCA Method A CULs identified in the on-property monitoring wells along the western property boundary may have migrated a short distance into the Elm Street ROW; however, further evaluation of these potential impacts was not feasible due to access restrictions.

Soil gas and indoor air sampling was conducted to evaluate the soil-to-indoor air pathway. Based on the results of the soil gas and indoor air samples, elevated concentrations of cVOCs above the MTCA Method B cleanup level were detected. However, based on the anticipated property redevelopment and cleanup action, the soil-to-indoor air pathway will not represent a threat to human health and the environment following the completion of the proposed remedial action. However, as a precautionary measure, the proposed building will be underlain by a passive vapor mitigation system that may include venting and/or a vapor membrane (e.g., Vapor Block 20, Drago Wrap, etc.).

## **3.0 CLEANUP STANDARDS**

The MTCA CULs are concentrations of hazardous substances that have been determined to be protective of human health and the environment under specific exposure conditions. Applicable CULs under MTCA can be developed using either default Method A tabulated values or using Method B Property-specific, risk-based formulations. Although both Method A and Method B CULs allow for unrestricted land use, Method A CULs are the most conservative and protective of human health and the environment.

For the purposes of this CAP, MTCA Method A CULs (or Method B cleanup levels when Method A CULs are not established) are appropriate for the Property. The COCs and their respective CULs for the Property are included in Section 3.3.

### **3.1 Applicable Regulations**

State and federal laws may be applicable to a cleanup action because of the type of action and/or the location of the Property (WAC 173-340-200). Typically, cleanup actions conducted in accordance with MTCA shall comply with applicable state and federal laws.

Other applicable regulations which may apply to the Property include:

- n State Environmental Policy Act (Chapter 43.21C RCW)
- n The Clean Water Act (33 United States Code [USC] 1251 et seq.)
- n Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 USC 9601 et. Seq. and 40 CFR 300)
- n Washington State Shoreline Management Act (RCW 90.58 WAC 173-18, 173-22, and 173-27)
- n Water Quality Standards for Surface Waters of the State of Washington (RCW 90.48 and 90.54) (WAC 173-201A)
- n Snohomish County regulations, codes, and rules

### **3.2 Development of Cleanup Levels**

Cleanup levels for affected media were evaluated in accordance with MTCA requirements and take into consideration exposure pathways and receptors based on current and likely future uses of the Property. As presented in Terracon's October 2019 RRIFS report, the TEE of the subject property indicates that the Property is excluded under WAC 173-340-7491(1)(a), WAC 173-340-7491(1)(b), and WAC 173-340-7491(1)(d).

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Although the Property is zoned and used as a commercial property, the Property can still use MTCA Method A CULs for soil as prescribed in WAC 173-340-704. Soil CULs for unrestricted land use were developed in accordance with WAC-173-340-740.

The CUL evaluation assesses the potential effectiveness of the selected remedial alternative and the likely ability of the alternative to attain a cleanup standard, with the ultimate objective of attaining an NFA determination from Ecology for the Property.

Because the Property and surrounding area are currently developed for commercial use and will likely remain so for the foreseeable future, only exposure pathways for human receptors were taken into consideration. Under the current and future land uses, the only potential pathway for exposure to on-Property contaminants is direct contact (i.e., dermal, ingestion, and inhalation exposures) with soil and groundwater by a construction worker.

### 3.3 Cleanup Levels

The selected MTCA CULs for soil and COCs are included below:

- § PCE – Method A cleanup level: 0.05 mg/kg
- § TCE – Method A cleanup level: 0.03 mg/kg
- § cDCE – Method B cleanup level: 160 mg/kg
- § VC – Method B cleanup level: 0.67 mg/kg

The selected MTCA CULs for groundwater and COCs are included below:

- § PCE – Method A cleanup level: 5 µg/l
- § TCE – Method A cleanup level: 5 µg/l
- § cDCE – Method B cleanup level: 16 µg/l
- § VC – Method A cleanup level: 0.2 µg/l

### 3.4 Points of Compliance

#### Points of Compliance for Soil

The point of compliance is the location where the enforcement limits that are set in accordance with WAC 173-200-050 will be measured and cannot be exceeded (WAC 173-200-060). Once the cleanup levels have been attained and/or exposure pathways eliminated at the defined points of compliance, the impacts present beneath the Property will no longer be considered a threat to human health or the environment.

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The potential exposure pathways for soil at the Property include direct contact, inhalation of airborne soil, and inhalation of vapors. Currently, the inhalation pathway for vapors may be complete for commercial workers and trespassers at the Property. During remediation activities and redevelopment of the Property, direct contact with soil, inhalation of airborne dust, and vapor inhalation of pathways are potentially complete for commercial workers. After completion of the Property remediation activities and redevelopment, removal of soil and treatment of groundwater with concentrations exceeding MTCA CULs should prevent direct contact and inhalation pathways at the Property for commercial workers and residents/occupants.

The standard POC for soil contamination beneath the Property is approximately 15 feet bgs, which represents a reasonable estimate of the depth that could be accessed during normal property redevelopment activities (WAC 173-340-740[6][d]). However, based on Terracon's proposed cleanup action, soil containing concentrations of COCs above the applicable MTCA cleanup levels will be removed and/or remediated to below applicable cleanup levels, as evidenced by sampling results. Specifically, POCs for soil in the western portion of the Property will be the sidewalls and bottoms of the proposed remedial excavation areas beneath and to west of the former dry cleaner, an area approximately 60 feet wide by 70 feet long and approximately 23 feet bgs.

### Points of Compliance for Groundwater

In accordance with WAC 173-340-720(8)(a)(b), the point of compliance for groundwater is defined as the uppermost level of the saturated zone extending vertically to the lowest depth that potentially could be impacted by the COCs at the Property. Monitoring wells MW-1 and MW-2 will be decommissioned as part of the redevelopment of the property. Groundwater at the Property has been identified between depths of approximately 2 to 23 feet bgs, which is the depth of the groundwater POCs. The limits of impacted media are assumed to extend just beyond the western property boundary into the Elm Street ROW, beyond the limits of the remedial excavation. However, based on the east migrating groundwater gradient, no detection of COCs in groundwater collected from off-property monitoring wells, and the proposed remedial amendment and contingency injections; the horizontal point of compliance for the Property is the limits of the remedial excavation. After the excavation, two new groundwater monitoring wells, MW-1A and MW-2A, will be installed to evaluate groundwater quality after the implementation of the cleanup action. The proposed groundwater monitoring well locations are depicted on Exhibit 11 of Appendix A.

Following installation, Terracon will complete four quarterly groundwater sampling events. All groundwater samples will be analyzed for PCE, TCE, cDCE, and VC.

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### Points of Compliance for Soil Vapor

Ecology has developed and published guidance to evaluate whether hazardous substances in soil vapor present a risk to human health by intruding into indoor air within structures (Ecology 2019).

Indoor air and ambient air were sampled to determine indoor air quality of the View Ridge Plaza building. Laboratory analytical data demonstrated that cVOCs concentrations exceeded their respective MTCA CULs and/or screening levels. Based on this data, the soil-to-indoor air pathway is complete; however, source removal within the limits of remedial excavation and property redevelopment will eliminate the exposure pathways, and the impacts present beneath the Property will no longer be considered a threat to human health or the environment. Therefore, it is Terracon's opinion that the vapor pathway will be incomplete.

## 4.0 SELECTED CLEANUP ACTION

This section summarizes the feasible remedial alternatives reviewed during the selection of the cleanup action alternative and outlines the components associated with the selected cleanup action. For a detailed description of the evaluation of remedial alternatives of the Property, refer to Terracon's RRIFS report, provided under a separate cover.

### 4.1 Evaluation of Feasible Cleanup Alternatives

Remedial components were evaluated with respect to the degree to which they comply with the cleanup requirements set forth in MTCA. According to MTCA, a cleanup action alternative must satisfy all the minimum threshold requirements for RAOs, and WAC 173-340-360(2)(b) also requires the cleanup action alternative to do the following:

- n Use permanent solutions to the maximum extent practicable.
- n Provide for a reasonable restoration time frame.
- n Consider public concerns on the proposed cleanup action alternative.

Screening of the remedial action alternatives are included in Table 4 of Appendix B.

The selected remedial technologies comply with the above threshold criteria for effectiveness and implementability and meet the RAOs in conjunction with the planned redevelopment of the property, further detailed below.

Due to the planned redevelopment of the property, the selected alternative was source removal in conjunction with the redevelopment of the property. A shored excavation would allow for the removal of soil with concentrations above MTCA cleanup levels within the limits of the property and redevelopment excavation.

## Draft Cleanup Action Plan

View Ridge Plaza ■ Everett, Washington

VCP Project No. NW3244

March 18, 2020 ■ Terracon Project No. 81197152



The selected technology meets the criteria listed above and source removal by means of remedial excavation is a proven technology for source reduction. The selected technology meets the following requirements:

- n Protectiveness. Source removal within the limits of property redevelopment should mitigate the exposure pathways, and the impacts present beneath the Property will no longer be considered a threat to human health or the environment. This remedial alternative is protective of human health and the environment, eliminates exposure pathways for future land use, and improves overall environmental quality.
- n Permanence. The physical removal of impacted soil is a permanent solution to reduce the toxicity, mobility, volume, or exposure pathways of hazardous substances. Excavated soil will be exported to a licensed nonhazardous subtitle D landfill.
- n Effectiveness over the Long Term. The removal of impacted soil from the Property within the limits of the excavation provides a high level of certainty that all contaminants in soil within the limits of the property redevelopment have been successfully removed and disposed of at an off-Property facility. In addition, removal of the majority of soil impacts at the Property has the potential to improve groundwater quality, as the majority of the potential source area will be removed.
- n Management of Short-Term Risks. The risks to human health and the environment associated with the alternative during its construction and implementation, are relatively high due to shoring installation and working around heavy equipment. Using competent personnel to complete the remedial excavation would reduce such risks.
- n Technical and Administrative Implementability. This alternative was technically feasible to implement. This includes the consideration of technical feasibility of the alternative, administrative and regulatory requirements, permitting, scheduling, size, complexity, monitoring requirements, access for construction operations and monitoring, and integration with the future development plans for the Property.

Additional components of the selected cleanup action include the installation of horizontal injection wells in the area of the former dry cleaner, additional groundwater monitoring well installations, and compliance groundwater monitoring, further detailed in Section 4.3.

## 4.2 Selected Cleanup Action Description

The selected cleanup action alternative consists of remedial excavation of the soil impacts with a remedial backfill amendment and the installation of horizontal injection wells in the area of the former dry cleaner. If groundwater COC concentrations remain above MCTA CULs after remedial

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March 18, 2020 ■ Terracon Project No. 81197152



excavation, an in-situ chemical injection treatment may be required to increase biodegradation of residual groundwater impacts. The general scope of the cleanup action is further detailed below.

### 4.3 Cleanup Action Implementation Plan

This section provides a description of the cleanup action components that will be implemented to, eliminate exposure pathways to impacted media beneath the Property containing concentrations of COCs exceeding CULs, and the appropriate steps to obtain regulatory Property closure.

#### Remedial Excavation

This alternative would involve source excavation in selected areas of the Property to the maximum extent practicable and off-property disposal of soils containing concentrations of COCs exceeding the MTCA Method A cleanup levels, followed by a remedial amendment backfill and installation of horizontal slotted pipes for future injections. As shown on Exhibits 5, 6, and 7, the existing soil analytical results depict the estimated areas of the Property where COCs for soil are present.

Given the soil conditions, depth to groundwater, and the nature and extent of soil contamination at the Property, this alternative takes into consideration shallow remedial excavation of contaminated soils and residual groundwater contamination, if any, in the area of the former dry cleaner facility. The proposed remedial excavation relative to Property features are depicted on Exhibit 11 of Appendix A.

Based on the findings of the RRIFS, the remedial excavation will be an approximate area of 60 feet by 70 feet by 23 feet deep, for the excavation dimensions. The estimated total volume of soil that would be excavated is approximately 3,100 cubic yards (cy). Clean structural fill would be imported and compacted to restore the excavation areas to the original Property grades. Based on an estimated conversion factor of 1.5 tons per cubic yard, the estimated total of tons of contaminated soil that will be excavated is approximately 4,650 tons.

Field screening and confirmation soil sampling would be conducted during excavation activities to 1) confirm the presence of contaminated soil; 2) to evaluate disposal options for the material proposed for off-Property disposition; and 3) to document that cleanup levels are attained at the limits of excavation.

After confirmatory soil sample collection within the excavation has been completed, the excavation will be backfilled with imported clean structural fill and potentially "clean" overburden soils available. The base of the excavation and through the saturated zone, the backfill will be amended with a remedial amendment within the excavation using an excavator. The addition of a chemical reduction remedial amendment to the soil will provide for enhanced anerobic biodegradation of residual impacted groundwater, if present, located adjacent to and down-gradient of the excavation. Prior to and during the backfilling of the remedial excavation, horizontal

## Draft Cleanup Action Plan

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slotted pipes used as injection wells will be installed, further discussed below. The proposed remedial excavation and horizontal injection wells relative to Property features are depicted on Exhibit 11 of Appendix A.

Furthermore, based on our understanding of property redevelopment plans, the preparation of an EMMP is included as an element of this remedial action alternative. The EMMP shall include guidance regarding environmental construction monitoring, notification to contractors regarding the potential for encountering impacted soil and/or groundwater, construction dewatering of impacted groundwater, limited Property observation by a field geologist to document earthwork and excavation activities during earthwork phases of construction, guidance for handling potential dewatering fluids, and documenting and reporting.

### Groundwater Monitoring

As discussed in Section 3.4, quarterly groundwater monitoring will be implemented as a secondary component of this remedial action to monitor long-term degradation and natural attenuation, and that the MTCA cleanup levels are achieved. Following the remedial excavation two new groundwater monitor wells will be installed to evaluate groundwater quality after the implementation of the cleanup action. The groundwater points of compliance and respective MTCA cleanup levels are likely to be achieved over time, within a reasonable restoration timeframe. After concentrations of COCs are below MTCA Method A cleanup levels, Ecology requires that there be four consecutive quarters of groundwater monitoring in the selected wells with sample results below the cleanup standard before they can issue a No Further Action determination.

### Contingency Remedial Injections

Following the remedial excavation and during backfill of the excavation, four separate 50-foot lineal sections of 4-inch diameter polyvinyl chloride (PVC) slotted pipe with 0.020-inch machined slots will be installed horizontally across the excavation area at approximately 8 to 10 feet bgs. The horizontal slotted pipe sections will be covered with a geotextile filter fabric and the pipes will be buried with Type 17 sand with gravel, or equivalent, as part of the excavation backfill process. The horizontal remediation slotted pipes will be oriented east to west and stubbed up separately with 4-inch diameter solid PVC vertical riser pipes and 90-degree elbows. A threaded end cap will be installed on the opposing end of each horizontal slotted pipe section. Vertical riser pipes will be terminated with a lockable plug and surface completion finished at final grade with a 12-inch flush mount monument and associated concrete pad.

The injection wells will be registered with Ecology as an Underground Injection Control (UIC) permitted remediation pipes, and the precise in-situ chemical reduction (ISCR) injection products, concentrations, and amounts will be provided to Ecology.

## Draft Cleanup Action Plan

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In-situ chemical treatment can be an effective method of degrading various forms of contaminants dissolved in groundwater and absorbed in pore spaces. Bioremediation has been widely utilized as a method to accelerate natural anaerobic biodegradation processes and enhance existing microbial processes. In some cases, the addition of microbial populations and nutrients can accelerate the biodegradation of cVOCs. The addition of a mixture of naturally occurring bacteria and enzymes with beneficial nutrients to an aquifer has the potential to further stimulate microbial growth and development, creating an environment in which rates of biodegradation may be enhanced.

Based on the contaminants and concentrations, ISCR may be a viable option for reducing cVOC concentrations in groundwater. ISCR combines both biological processes and metallic particle driven abiotic pathways to chemically reduce chlorinated contaminants into harmless end products. ISCR agents are typically applied in combination with an electron donor which creates a reducing environment. The incorporation of iron particles or ferrous salts ( $Fe^{2+}$ ) can enhance chlorinated contaminant remediation by enabling various chemical reduction pathways.

### Environmental Information Management Entry and Site Closure

Terracon will submit all Property data into the Ecology Environmental Information Management system (EIM) database. Ecology typically does not grant a final NFA determination for a Property until all Property data have been entered into the EIM database.

Upon receiving a final NFA determination letter from Ecology and upon the client's written approval, Terracon will contract with a Washington-licensed driller to decommission the Property groundwater monitoring wells and horizontal slotted remediation piping. Decommissioning will be completed in accordance with Chapter 173-160 *Standards for Decommissioning a Resource Protection Well*. The wells will be decommissioned by placing bentonite chips inside the well casing and hydrating the bentonite with potable water. The horizontal slotted remediation piping will be decommissioned by pumping cement grout into the pipes. The flush mount well monuments and vaults will be sealed with concrete and left in place.

### Public Participation

In addition to public distribution and review, the CAP will be provided to Ecology and Snohomish County. Terracon will notify Snohomish County of the potential groundwater impacts in the Elm Street ROW, who has a fee interest at the ROW.

Terracon respectfully requests an opinion from Ecology regarding the proposed groundwater monitoring well locations detailed in Section 3.4 and the associated groundwater sampling plan, as well as an opinion regarding the remedial approach relative to the pursuit of an NFA determination for the Property.

## **5.0 STANDARD OF CARE, SCOPE LIMITATIONS AND RELIANCE**

### **5.1.1 Standard of Care**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These environmental investigation services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal.

### **5.1.2 Additional Scope Limitations**

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Property activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, cVOCs, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services. We cannot represent that the Property contains no hazardous substances, toxic materials, cVOCs, or other latent conditions beyond those identified during Terracon's RRIFS. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services. The interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

### **5.1.3 Reliance**

This report has been prepared for the exclusive use of Catalyst Capital Holdings, LLC., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Property) is prohibited without the express written authorization of Catalyst Capital Holdings, LLC., and Terracon. Any unauthorized distribution or reuse is at Catalyst Capital Holdings, LLC's., sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in our proposals, this CAP report, and Terracon's Agreement for Services. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Catalyst Capital Holdings, LLC., and all relying parties unless otherwise agreed in writing.

## Draft Cleanup Action Plan

View Ridge Plaza ■ Everett, Washington

VCP Project No. NW3244

March 18, 2020 ■ Terracon Project No. 81197152



## 6.0 REFERENCES

Environmental Partners, Inc. (EPI) 1993. Phase I Environmental Assessment. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, May 28, 1993.

Stratum Group (Stratum) 2013. Environmental Sampling Summary. 220 Olympic Boulevard, Everett, Snohomish County, Washington, November 14, 2013.

Stratum Group (Stratum) 2014. Environmental Site Assessment: Phase II Soil and Groundwater Investigation. 220 Olympic Boulevard, Everett, Snohomish County, Washington, February 28, 2014.

Environmental Partners, Inc. (EPI) 2014. Additional Site Characterization, Everett Masonic, 220 Olympic Boulevard, Everett, Snohomish County, Washington, December 2, 2014

Environmental Partners, Inc. (EPI) 2015. Additional Site Characterization with Indoor Air Data, Everett Masonic, 220 Olympic Boulevard, Everett, Snohomish County, Washington, March 4, 2015

Notkin Mechanical Engineers 2015. View Ridge Plaza Existing Mechanical Systems Conditions Survey. 220 Olympic Boulevard, Everett, Snohomish County, Washington, September 9, 2015

Terracon Consultants Inc. (Terracon) 2015. Limited Site Investigation. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, November 19, 2015.

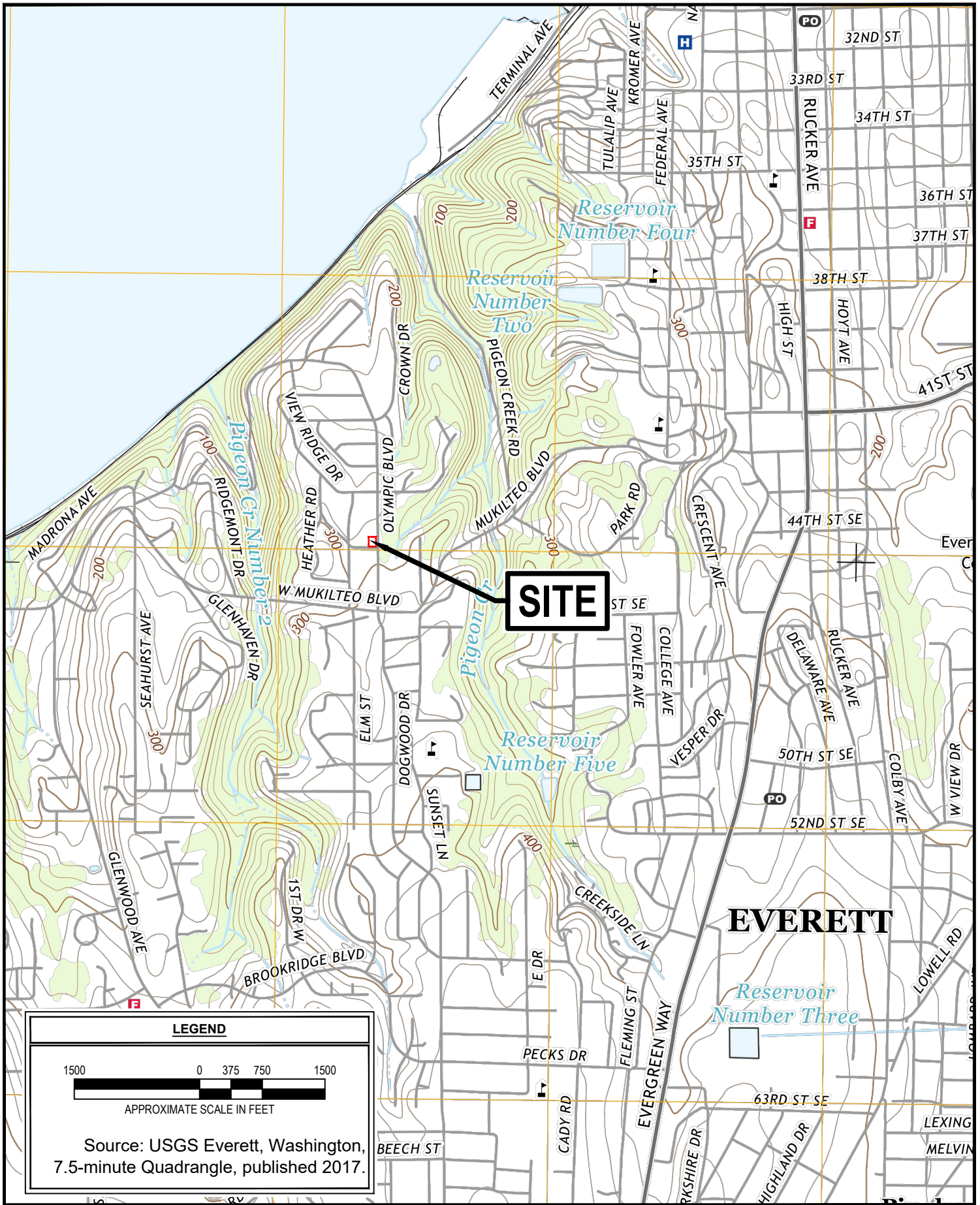
Terracon Consultants Inc. (Terracon) 2015a. Revised Limited Site Investigation. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, January 7, 2016.

Terracon Consultants Inc. (Terracon) 2018. Limited Indoor Air Quality Assessment. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, June 12, 2018.

Terracon Consultants Inc. (Terracon) 2019. Revised Remedial Investigation/Feasibility Study Report. View Ridge Plaza, 220 Olympic Boulevard, Everett, Snohomish County, Washington, October 31, 2019.

## **APPENDIX A – EXHIBITS**

- Exhibit 1. Site Location Map
- Exhibit 2. Aerial and Utilities Map
- Exhibit 3. Site Diagram
- Exhibit 4. Detailed Site Diagram
- Exhibit 5. Soil Analytical Concentrations Map
- Exhibit 6. Cross-Section A-A'
- Exhibit 7. Cross-Section B-B'
- Exhibit 8. Groundwater Analytical Concentrations Map
- Exhibit 9. Groundwater Flow and Gradient Map April 2019
- Exhibit 10. Groundwater Flow and Gradient Map June 2019
- Exhibit 11. Proposed Remedial Excavation, Groundwater Monitoring Wells, Horizontal Injection Wells Plan



**LEGEND**

1500 0 375 750 1500

APPROXIMATE SCALE IN FEET

Source: USGS Everett, Washington, 7.5-minute Quadrangle, published 2017.

Project Mngr:	BAJ
Drawn By:	AMP
Checked By:	BAJ
Approved By:	BAJ

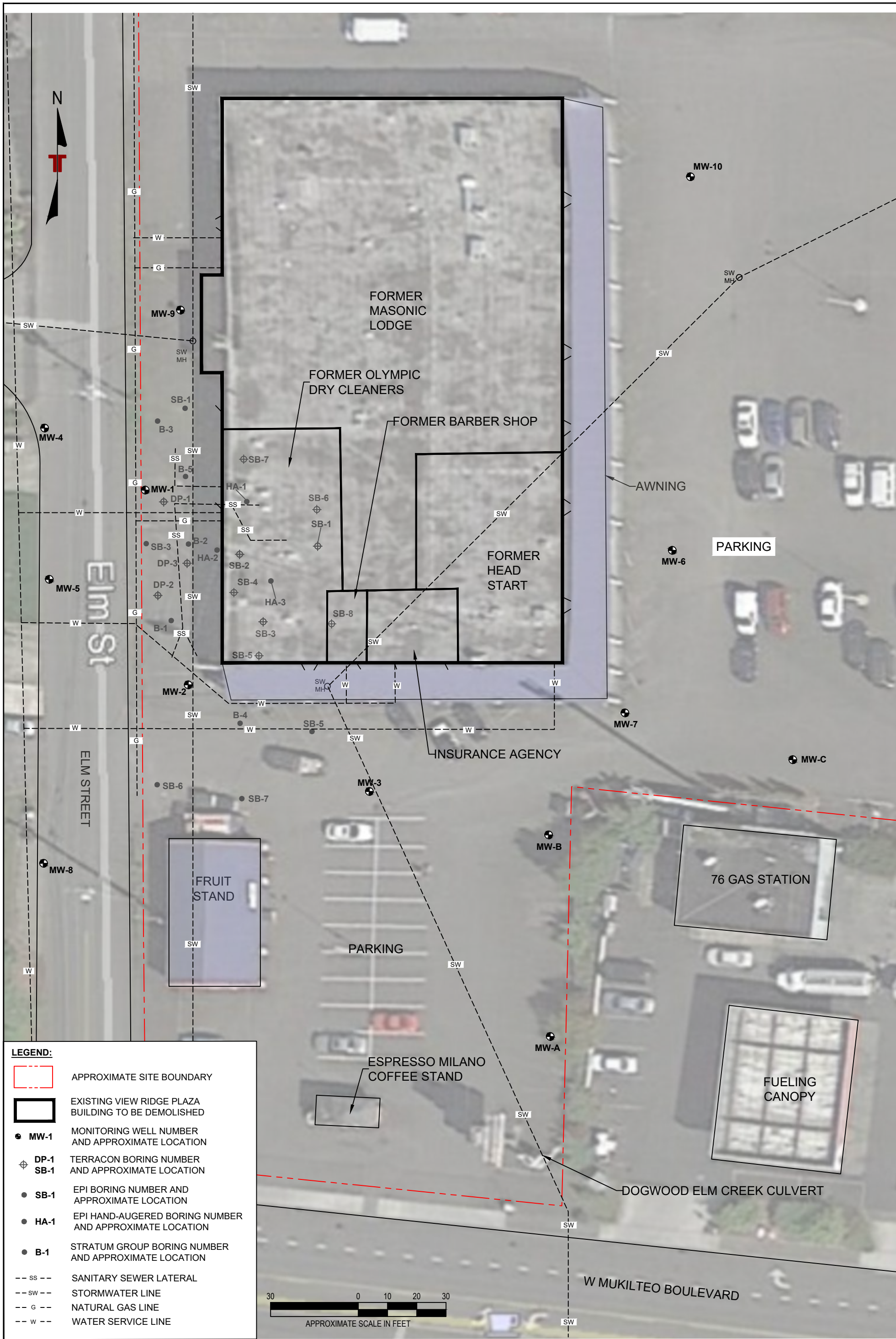
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File No.	EXHIBIT 1
Date:	July 2019

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Consulting Engineers and Scientists

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**SITE LOCATION MAP**  
VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT  
**1**



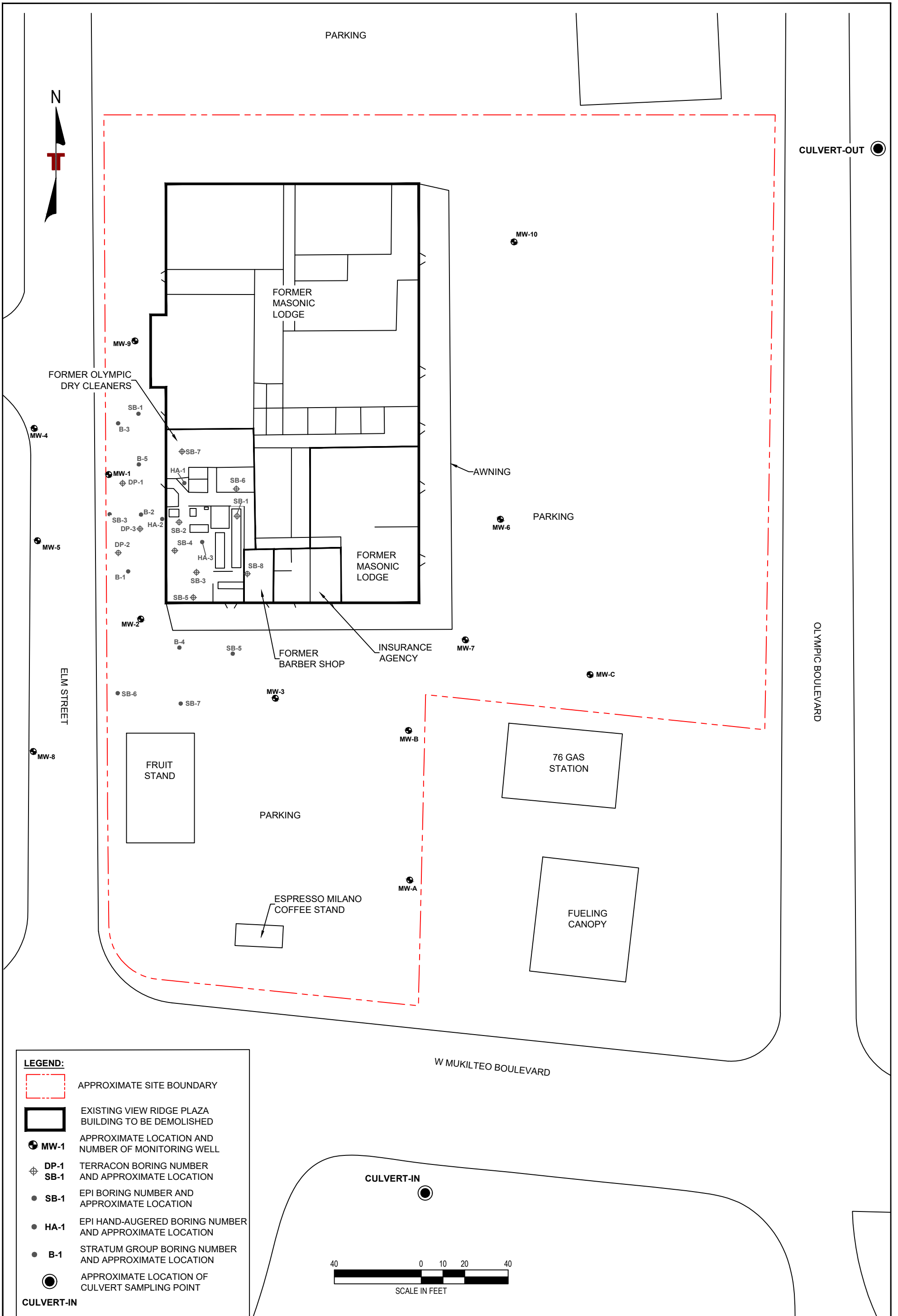
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Drawn By:	AMP	Scale:	AS SHOWN
Checked By:	BAJ	File No.	EXHIBIT 2
Approved By:	MYW	Date:	JUNE 2019

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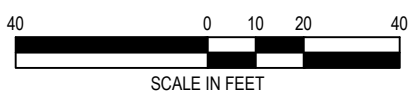
**AERIAL & UTILITIES MAP**

VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON



**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- EXISTING VIEW RIDGE PLAZA BUILDING TO BE DEMOLISHED
- MW-1** APPROXIMATE LOCATION AND NUMBER OF MONITORING WELL
- DP-1** TERRACON BORING NUMBER AND APPROXIMATE LOCATION
- SB-1** EPI BORING NUMBER AND APPROXIMATE LOCATION
- HA-1** EPI HAND-AUGERED BORING NUMBER AND APPROXIMATE LOCATION
- B-1** STRATUM GROUP BORING NUMBER AND APPROXIMATE LOCATION
- APPROXIMATE LOCATION OF CULVERT SAMPLING POINT

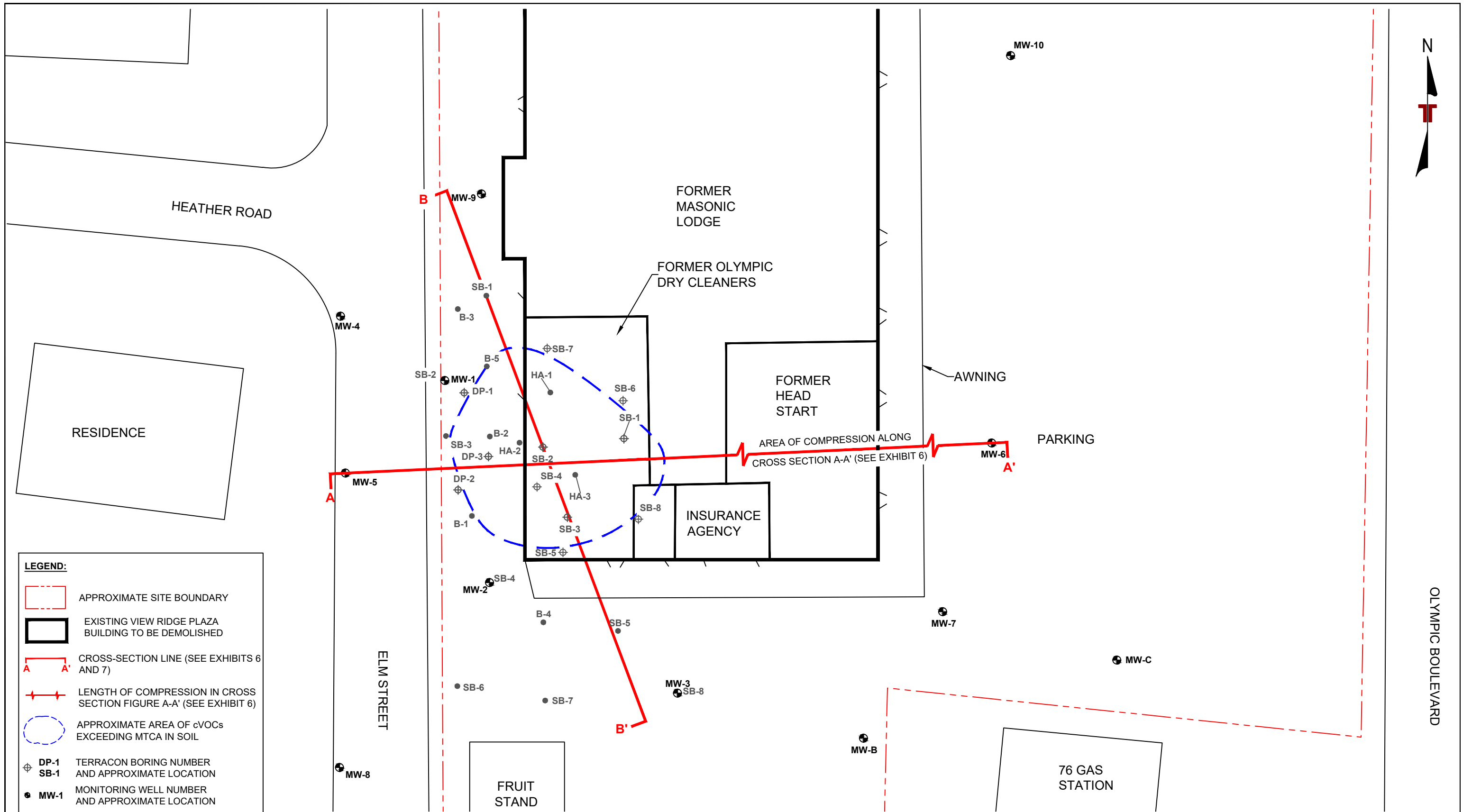


Project Mngr:	BAJ	Project No.:	81197152
Drawn By:	AMP	Scale:	AS SHOWN
Checked By:	BAJ	File No.:	EXHIBIT 3
Approved By:	MYW	Date:	JUNE 2019

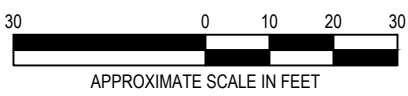
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**SITE DIAGRAM**  
VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON

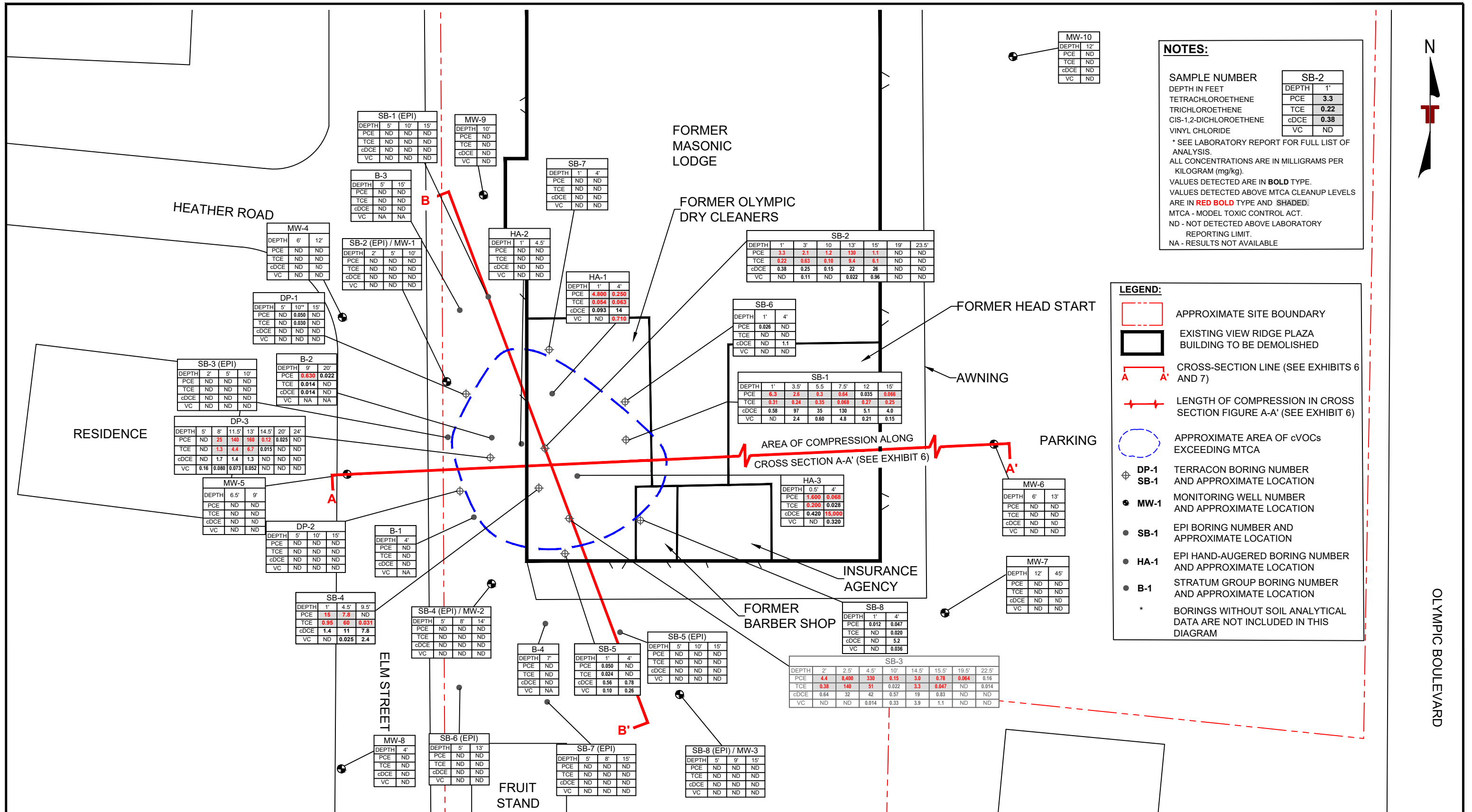


- LEGEND:**
- APPROXIMATE SITE BOUNDARY
  - EXISTING VIEW RIDGE PLAZA BUILDING TO BE DEMOLISHED
  - A A' CROSS-SECTION LINE (SEE EXHIBITS 6 AND 7)
  - + + LENGTH OF COMPRESSION IN CROSS SECTION FIGURE A-A' (SEE EXHIBIT 6)
  - APPROXIMATE AREA OF cVOCs EXCEEDING MTCA IN SOIL
  - ⊕ DP-1 TERRACON BORING NUMBER AND APPROXIMATE LOCATION
  - ⊕ SB-1
  - MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
  - SB-1 EPI BORING NUMBER AND APPROXIMATE LOCATION
  - HA-1 EPI HAND-AUGERED BORING NUMBER AND APPROXIMATE LOCATION
  - B-1 STRATUM GROUP BORING NUMBER AND APPROXIMATE LOCATION



Basemap PDF file provided by Client and modified by Terracon.

Project Mng'r: BAJ Drawn By: SPL Checked By: BAJ Approved By: MYW	Project No. 81197152 Scale: AS SHOWN File No. EXHIBIT 4 Date: JUNE 2019	<b>Terracon</b> Consulting Engineers and Scientists <small>21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043          PH. (425) 771-3304 FAX. (425) 771-3549</small>	<b>DETAILED SITE DIAGRAM</b> VIEW RIDGE PLAZA 220 OLYMPIC BOULEVARD EVERETT, SNOHOMISH COUNTY, WASHINGTON	EXHIBIT <span style="font-size: 2em; font-weight: bold;">4</span>
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**NOTES:**

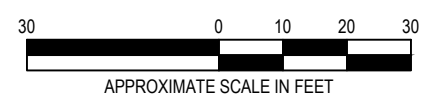
SAMPLE NUMBER

DEPTH	1'
TETRACHLOROETHENE	PCE <b>3.3</b>
TRICHLOROETHENE	TCE <b>0.22</b>
CIS-1,2-DICHLOROETHENE	cDCE <b>0.38</b>
VINYL CHLORIDE	VC ND

\* SEE LABORATORY REPORT FOR FULL LIST OF ANALYSIS.  
 ALL CONCENTRATIONS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg).  
 VALUES DETECTED ARE IN **BOLD** TYPE.  
 VALUES DETECTED ABOVE MTCA CLEANUP LEVELS ARE IN **RED BOLD** TYPE AND **SHADED**.  
 MTCA - MODEL TOXIC CONTROL ACT.  
 ND - NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.  
 NA - RESULTS NOT AVAILABLE

**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- EXISTING VIEW RIDGE PLAZA BUILDING TO BE DEMOLISHED
- CROSS-SECTION LINE (SEE EXHIBITS 6 AND 7)
- LENGTH OF COMPRESSION IN CROSS SECTION FIGURE A-A' (SEE EXHIBIT 6)
- APPROXIMATE AREA OF cVOCs EXCEEDING MTCA
- DP-1 TERRACON BORING NUMBER AND APPROXIMATE LOCATION
- SB-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- SB-1 EPI BORING NUMBER AND APPROXIMATE LOCATION
- HA-1 EPI HAND-AUGERED BORING NUMBER AND APPROXIMATE LOCATION
- B-1 STRATUM GROUP BORING NUMBER AND APPROXIMATE LOCATION
- \* BORINGS WITHOUT SOIL ANALYTICAL DATA ARE NOT INCLUDED IN THIS DIAGRAM



Project Mgr: BAJ  
 Drawn By: SPL  
 Checked By: BAJ  
 Approved By: MYW

Project No. 81197152  
 Scale: AS SHOWN  
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 Date: JUNE 2019

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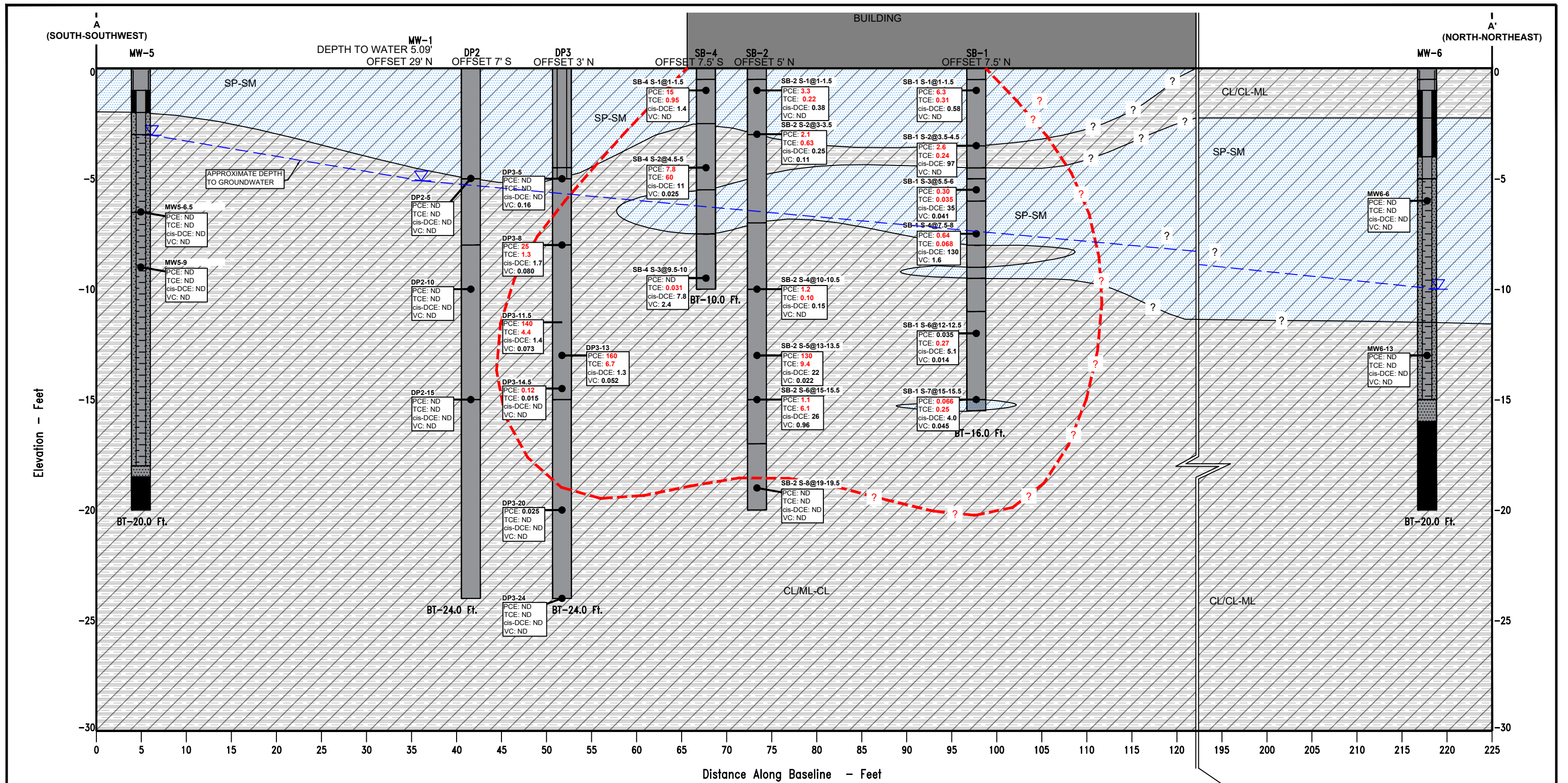
21905 64th Avenue W, Ste 100 Mountlake Terrace, WA 98043  
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**SOIL ANALYTICAL CONCENTRATIONS MAP**

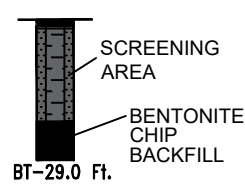
VIEW RIDGE PLAZA  
 220 OLYMPIC BOULEVARD  
 EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT  
 5

Basemap PDF file provided by Client and modified by Terracon.



**WELL DETAIL**  
B-2



- B-1 BORING NUMBER
- APPROXIMATE LITHOLOGY CONTACT
- BT 26.5' APPROXIMATE BORING TERMINATION DEPTH (FEET)
- OFFSET 8' E APPROXIMATE DISTANCE AND DIRECTION OF BORING FROM BASELINE
- DP2-5  
PCE: 30  
TCE: 0.03  
cis-DCE: 7  
VC: 6  
NUMBER AND APPROXIMATE SOIL SAMPLE LOCATION WITH ANALYTICAL DATA (mg/kg)

- ML/ML-CL: SILT TO SILTY CLAY WITH MINOR AMOUNTS OF SAND AND/ OR GRAVEL
- SP/SP-SM: SAND WITH VARYING AMOUNTS OF SILT AND GRAVEL
- FILL: FILL

- ? — APPROXIMATE EXTENTS OF LITHOLOGY
- ? — APPROXIMATE LIMIT OF cVOC IMPACTS

COMPRESSION ALONG BASELINE OF APPROXIMATELY 70'

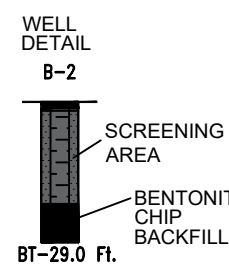
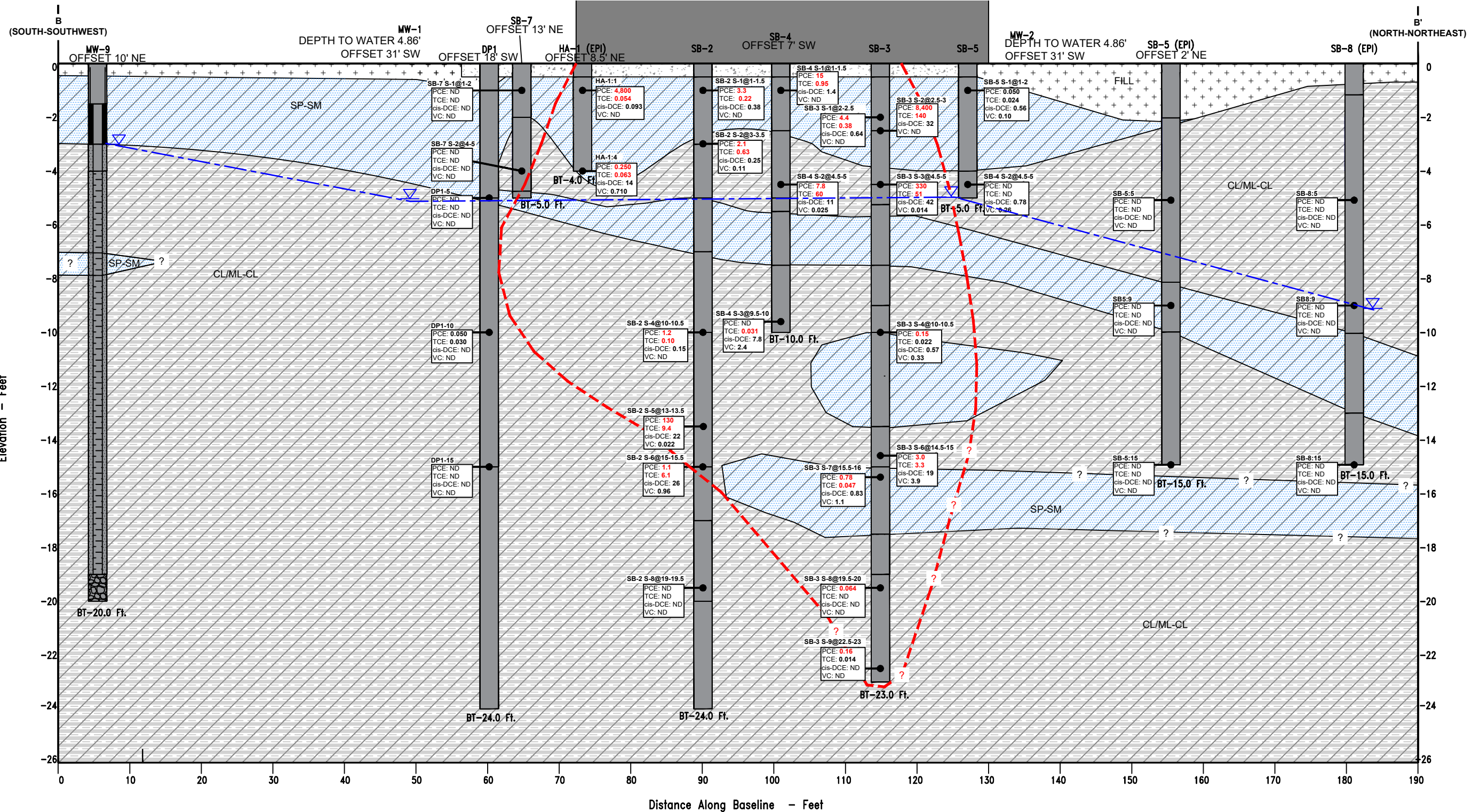
NOTES:  
• PLEASE REFER TO CROSS SECTION LINES ON EXHIBIT 4.

Project Mgr:	BAJ	Project No:	81197152
Drawn By:	SPL	Scale:	NOT TO SCALE
Checked By:	KSB	File No:	Exhibit 6
Approved By:	MYW	Date:	August 2019

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**CROSS SECTION A-A' WITH PCE CONCENTRATIONS**  
VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON

EXHIBIT  
**6**



- B-1 BORING NUMBER
- APPROXIMATE LITHOLOGY CONTACT
- BT 26.5' APPROXIMATE BORING TERMINATION DEPTH (FEET)
- OFFSET 8' E APPROXIMATE DISTANCE AND DIRECTION OF BORING FROM BASELINE
- DP2-5  
PCE: 30  
TCE: 0.03  
cis-DCE: 7  
VC: 6 NUMBER AND APPROXIMATE SOIL SAMPLE LOCATION WITH ANALYTICAL DATA (mg/kg)
- ML/CL: SILT TO SILTY CLAY WITH MINOR AMOUNTS OF SAND AND/OR GRAVEL
- SP/SP-SM: SAND WITH VARYING AMOUNTS OF SILT AND GRAVEL
- FILL: FILL
- SW: WELL-GRADED SAND

— ? — APPROXIMATE EXTENTS OF LITHOLOGY

○ ○ ○ ○ ○ APPROXIMATE LIMIT OF cVOC IMPACTS

Project Mgr:	BAJ	Project No:	81197152
Drawn By:	SPL	Scale:	NOT TO SCALE
Checked By:	KSB	File No:	Exhibit 7
Approved By:	MYW	Date:	August 2019

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Consulting Engineers and Scientists

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**CROSS SECTION B-B'**  
VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON

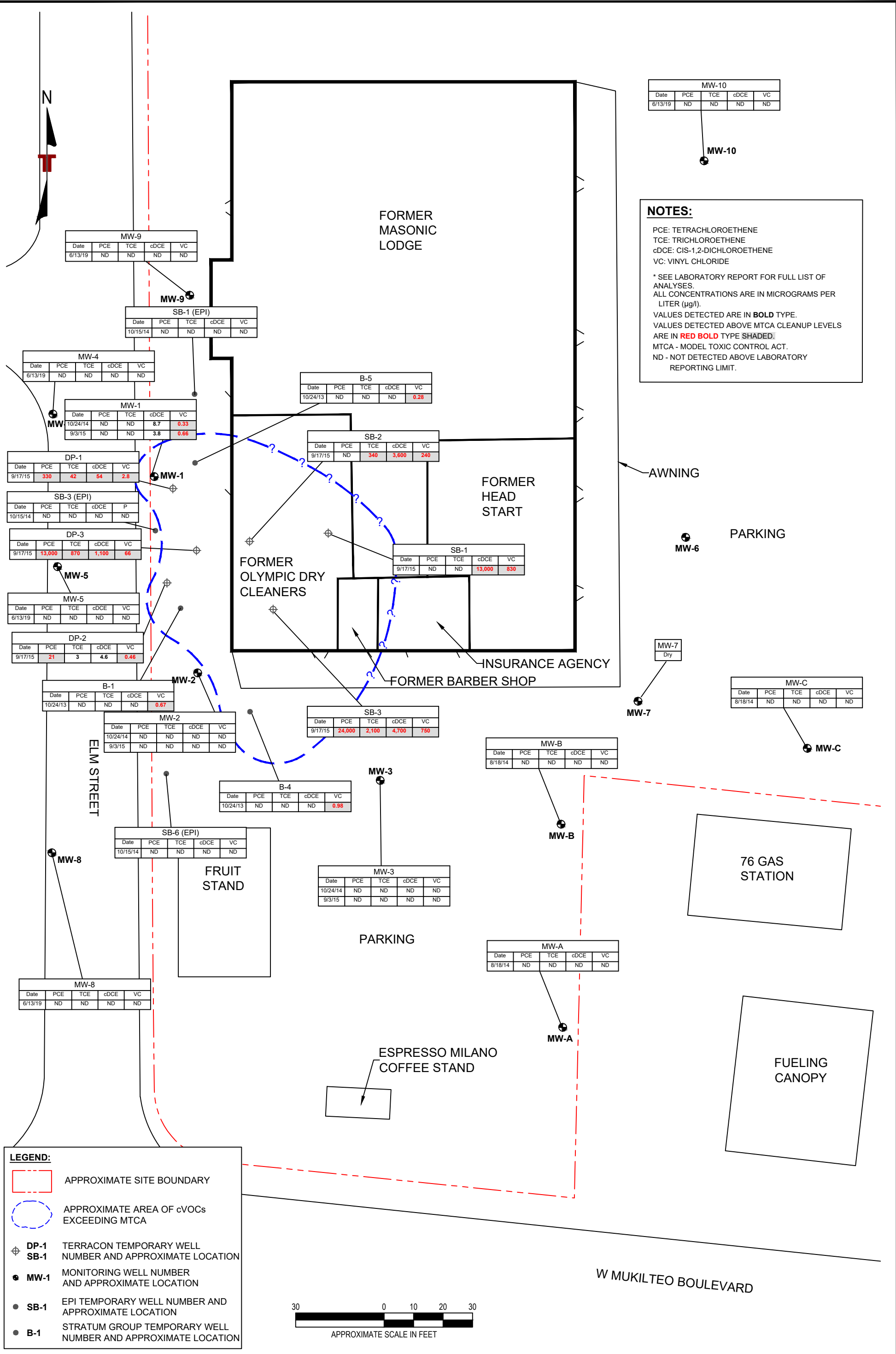
NOTES:  
• PLEASE REFER TO CROSS SECTION LINES ON EXHIBIT 4.

MW-10				
Date	PCE	TCE	cDCE	VC
6/13/19	ND	ND	ND	ND

**NOTES:**

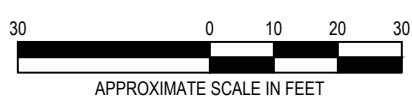
PCE: TETRACHLOROETHENE  
TCE: TRICHLOROETHENE  
cDCE: CIS-1,2-DICHLOROETHENE  
VC: VINYL CHLORIDE

\* SEE LABORATORY REPORT FOR FULL LIST OF ANALYSES.  
ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/l).  
VALUES DETECTED ARE IN **BOLD** TYPE.  
VALUES DETECTED ABOVE MTCA CLEANUP LEVELS ARE IN **RED BOLD** TYPE SHADED.  
MTCA - MODEL TOXIC CONTROL ACT.  
ND - NOT DETECTED ABOVE LABORATORY REPORTING LIMIT.



**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE AREA OF cVOCs EXCEEDING MTCA
- DP-1 TERRACON TEMPORARY WELL NUMBER AND APPROXIMATE LOCATION
- SB-1 EPI TEMPORARY WELL NUMBER AND APPROXIMATE LOCATION
- MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION
- SB-1 STRATUM GROUP TEMPORARY WELL NUMBER AND APPROXIMATE LOCATION
- B-1



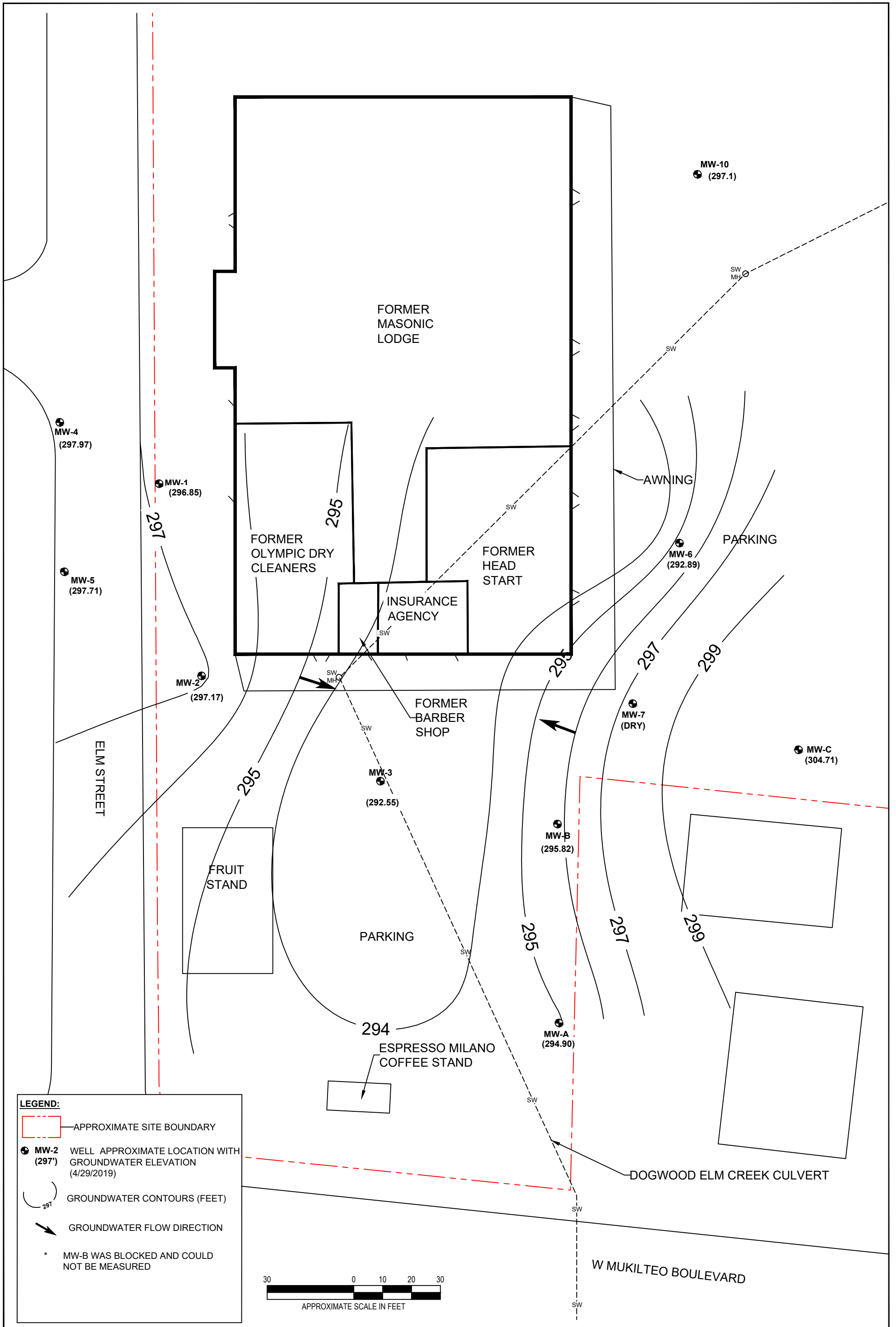
Project Mngr:	BAJ	Project No.	81197152
Drawn By:	AMP	Scale:	AS SHOWN
Checked By:	BAJ	File No.	EXHIBIT 8
Approved By:	MYW	Date:	JUNE 2019

**Terracon**  
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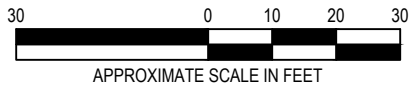
**GROUNDWATER ANALYTICAL CONCENTRATIONS MAP**

VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON



**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- MW-2 (297')** WELL APPROXIMATE LOCATION WITH GROUNDWATER ELEVATION (4/29/2019)
- GROUNDWATER CONTOURS (FEET)
- GROUNDWATER FLOW DIRECTION
- \* MW-B WAS BLOCKED AND COULD NOT BE MEASURED

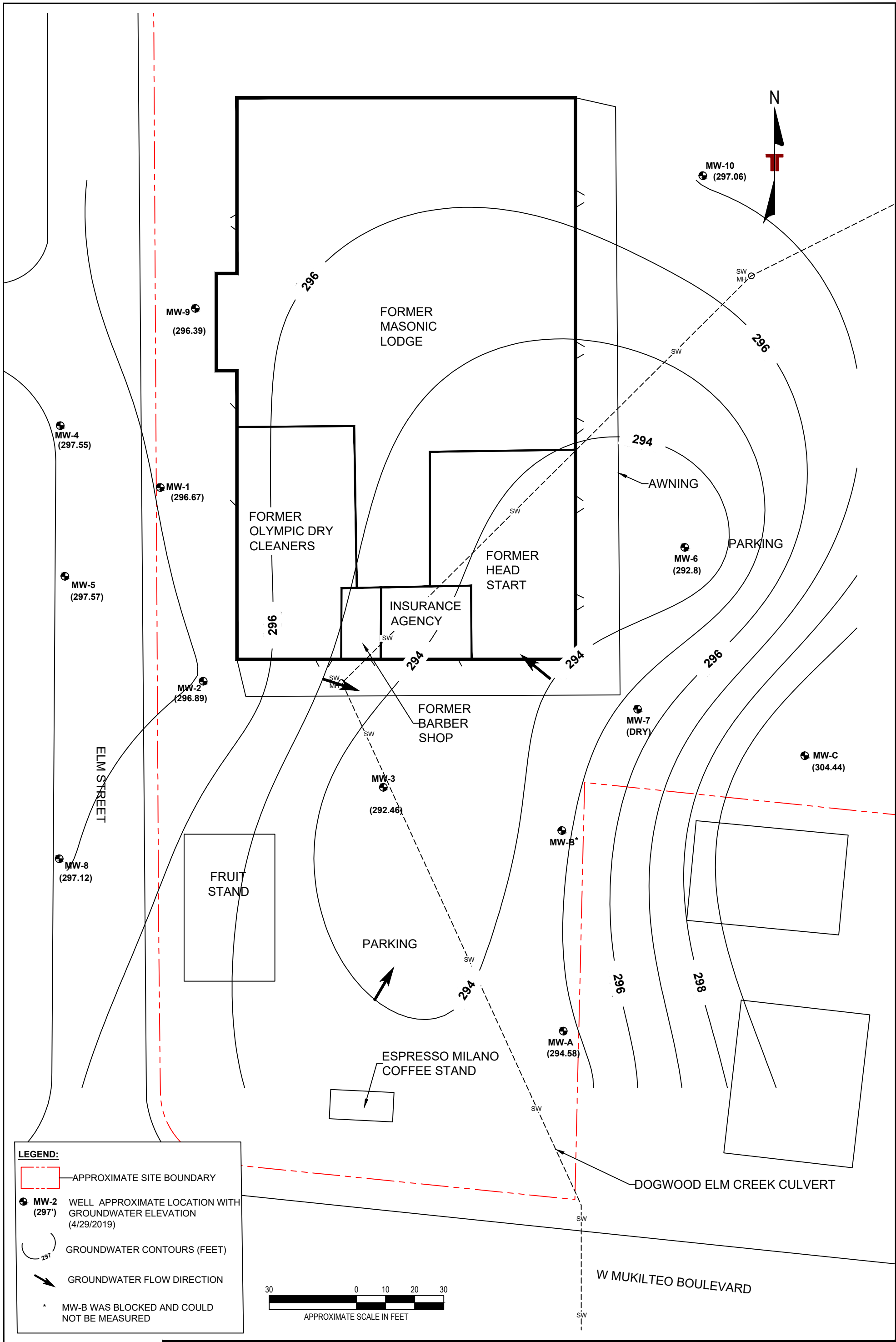


Project Mngr:	BAJ	Project No.	81197152
Drawn By:	JWD	Scale:	AS SHOWN
Checked By:	BAJ	File No.	EXHIBIT 9
Approved By:	MYW	Date:	AUG 2019

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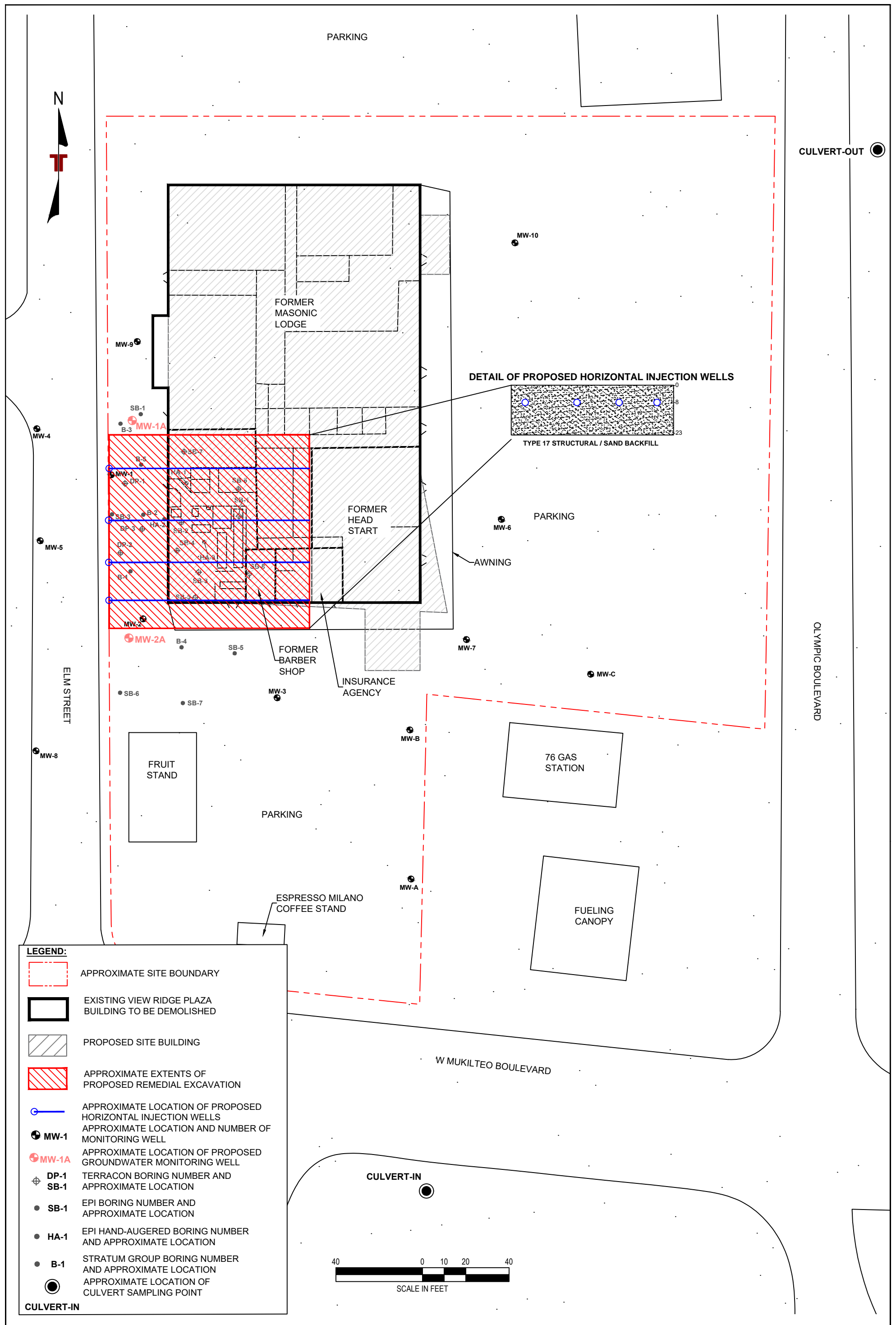
**GROUNDWATER FLOW AND GRADIENT MAP - APRIL 2019**  
VIEW RIDGE PLAZA  
220 OLYMPIC BOULEVARD  
EVERETT, SNOHOMISH COUNTY, WASHINGTON



Project Mngr:	BAJ	Project No.	81197152
Drawn By:	JWD	Scale:	AS SHOWN
Checked By:	BAJ	File No.	EXHIBIT 10
Approved By:	MYW	Date:	AUG 2019

**Terracon**  
 Consulting Engineers and Scientists  
 21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043  
 PH. (425) 771-3304 FAX. (425) 771-3549

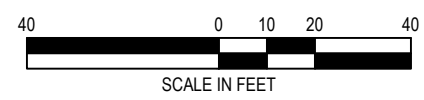
**GROUNDWATER FLOW AND GRADIENT MAP - JUNE 2019**  
 VIEW RIDGE PLAZA  
 220 OLYMPIC BOULEVARD  
 EVERETT, SNOHOMISH COUNTY, WASHINGTON



**LEGEND:**

- APPROXIMATE SITE BOUNDARY
- EXISTING VIEW RIDGE PLAZA BUILDING TO BE DEMOLISHED
- PROPOSED SITE BUILDING
- APPROXIMATE EXTENTS OF PROPOSED REMEDIAL EXCAVATION
- APPROXIMATE LOCATION OF PROPOSED HORIZONTAL INJECTION WELLS
- MW-1 APPROXIMATE LOCATION AND NUMBER OF MONITORING WELL
- MW-1A APPROXIMATE LOCATION OF PROPOSED GROUNDWATER MONITORING WELL
- ⊕ DP-1 TERRACON BORING NUMBER AND APPROXIMATE LOCATION
- ⊕ SB-1 EPI BORING NUMBER AND APPROXIMATE LOCATION
- SB-1 EPI BORING NUMBER AND APPROXIMATE LOCATION
- HA-1 EPI HAND-AUGERED BORING NUMBER AND APPROXIMATE LOCATION
- B-1 STRATUM GROUP BORING NUMBER AND APPROXIMATE LOCATION
- APPROXIMATE LOCATION OF CULVERT SAMPLING POINT

**CULVERT-IN**



Project Mngr:	BAJ	Project No.:	81197152	<p>21905 64th Avenue W., Ste 100 Mountlake Terrace, WA 98043 PH. (425) 771-3304 FAX. (425) 771-3549</p>	<p><b>PROPOSED REMEDIAL EXCAVATION AND HORIZONTAL INJECTION WELLS</b></p> <p>VIEW RIDGE PLAZA 220 OLYMPIC BOULEVARD EVERETT, SNOHOMISH COUNTY, WASHINGTON</p>	<p>EXHIBIT</p> <p style="font-size: 24px; font-weight: bold;">11</p>
Drawn By:	AMP	Scale:	AS SHOWN			
Checked By:	BAJ	File No.:	EXHIBIT 12			
Approved By:	MYW	Date:	JUNE 2019			

## **APPENDIX B – TABLES**

Table 1. Cumulative Summary of Soil Analytical Results

Table 2. Cumulative Summary of Groundwater Analytical Results

Table 3. Cumulative Summary of Groundwater Elevation Data

Table 4. Site Specific Remedial Action Technology Screening

**TABLE 1**  
**CUMULATIVE SUMMARY OF SOIL ANALYTICAL RESULTS**  
**View Ridge Plaza**  
**220 Olympic Boulevard**  
**Everett, Snohomish County, Washington**

all concentrations are in milligrams per kilogram (mg/kg)

Boring ID	Sample Number	Sample Date	Sample Depth (ft)	VOCs									
				Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2-Dichloroethene (cis-DCE)	Trans-1,2-Dichloroethene (trans-DCE)	Vinyl Chloride (VC)	1,1-Dichloroethene (1,1-DCE)	P-Isopropyltoluene	Toluene	Benzene	1,2-Dibromomethane
<b>MTCA Method A Cleanup Level for Unrestricted Land Use</b>				<b>0.05</b>	<b>0.03</b>	<b>160*</b>	<b>1,600*</b>	<b>240*</b>	<b>4,000*</b>	<b>NE</b>	<b>7</b>	<b>0.03</b>	<b>0.005</b>
<b>Terracon Soil Analytical Results 2019</b>													
MW-4	MW4-6	4/26/2019	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	MW4-12	4/26/2019	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-5	MW5-6.5	4/26/2019	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	MW5-9	4/26/2019	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-6	MW6-6	4/25/2019	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	MW6-13	4/25/2019	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-7	MW7-12	4/25/2019	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	MW7-45	4/25/2019	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-8	MW-8-4	6/5/2019	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-9	MW-9-10	6/5/2019	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-10	MW-10-12	6/5/2019	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	
<b>Terracon Soil Analytical Results 2015</b>													
DP-1	DP1-5	9/16/2015	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DP-1A	DP1A-10'	9/16/2015	10	<b>0.050</b>	<b>0.030</b>	ND	ND	ND	ND	ND	ND	ND	
DP-1	DP1-15'	9/16/2015	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DP-2	DP2-5'	9/16/2015	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	DP2-10'	9/16/2015	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	DP2-15'	9/16/2015	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	DP3-5'	9/16/2015	5	ND	ND	ND	ND	<b>0.16</b>	ND	ND	ND	ND	
	DP3-8'	9/16/2015	8	<b>25</b>	<b>1.3</b>	<b>1.7</b>	<b>0.080</b>	ND	ND	ND	ND	ND	
	DP3-11.5'	9/16/2015	11.5	<b>140</b>	<b>4.4</b>	<b>1.4</b>	<b>0.073</b>	<b>0.014</b>	ND	ND	ND	ND	
	DP3-13'	9/16/2015	13	<b>160</b>	<b>6.7</b>	<b>1.3</b>	<b>0.052</b>	<b>0.045</b>	ND	ND	ND	ND	
	DP3-14.5'	9/16/2015	14.5	<b>0.12</b>	<b>0.015</b>	ND	ND	ND	ND	ND	<b>0.0060</b>	<b>0.011</b>	
	DP3-20'	9/16/2015	20	<b>0.025</b>	ND	ND	ND	ND	ND	ND	ND	ND	
	DP3-24'	9/16/2015	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-1	SB-1 S-1@1-1.5'	9/16/2015	1	<b>6.3</b>	<b>0.31</b>	<b>0.58</b>	ND	ND	ND	ND	ND	ND	
	SB-1 S-2@3.5-4.5'	9/16/2015	3.5	<b>2.6</b>	<b>0.24</b>	<b>97</b>	<b>2.4</b>	<b>0.13</b>	<b>0.37</b>	<b>0.67</b>	ND	ND	
	SB-1 S-3@5.5-6'	9/16/2015	5.5	<b>0.30</b>	<b>0.035</b>	<b>35</b>	<b>0.60</b>	<b>0.041</b>	<b>0.040</b>	ND	<b>0.0081</b>	ND	
	SB-1 S-4@7.5-8'	9/16/2015	7.5	<b>0.64</b>	<b>0.068</b>	<b>130</b>	<b>4.8</b>	<b>1.6 F3</b>	<b>0.32</b>	<b>0.29</b>	<b>0.43</b>	<b>0.043</b>	
	SB-1 S-6@12-12.5'	9/16/2015	12	<b>0.035</b>	<b>0.27</b>	<b>5.1</b>	<b>0.21</b>	<b>0.014</b>	ND	ND	ND	ND	
	SB-1 S-7@15-15.5'	9/16/2015	15	<b>0.066</b>	<b>0.25</b>	<b>4.0</b>	<b>0.15</b>	<b>0.045 F3</b>	ND	ND	ND	ND	
	SB-2 S-1@1-1.5'	9/16/2015	1	<b>3.3</b>	<b>0.22</b>	<b>0.38</b>	ND	ND	ND	ND	ND	ND	
	SB-2 S-2@3-3.5'	9/16/2015	3	<b>2.1</b>	<b>0.63</b>	<b>0.25</b>	<b>0.11</b>	ND	ND	ND	ND	ND	
	SB-2 S-4@10-10.5'	9/16/2015	10	<b>1.2</b>	<b>0.10</b>	<b>0.15</b>	ND	ND	ND	ND	ND	ND	
	SB-2 S-6@13-13.5'	9/16/2015	13	<b>130</b>	<b>9.4</b>	<b>22</b>	<b>0.022</b>	ND	ND	ND	ND	ND	
	SB-2 S-6@15-15.5'	9/16/2015	15	<b>1.1</b>	<b>6.1</b>	<b>26</b>	<b>0.28</b>	<b>0.96</b>	<b>0.031</b>	ND	ND	ND	
	SB-2 S-8@19-19.5'	9/16/2015	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-2 S-9@23.5-24'	9/16/2015	13.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-3 S-1@2-2.5'	9/16/2015	2	<b>4.4</b>	<b>0.38</b>	<b>0.64</b>	ND	ND	ND	ND	ND	ND	
	SB-3 S-2@2.5-3'	9/16/2015	2.5	<b>8.400</b>	<b>140</b>	<b>32</b>	ND	ND	ND	ND	ND	ND	
	SB-3 S-3@4.5-5'	9/16/2015	4.5	<b>330</b>	<b>51</b>	<b>42</b>	ND	ND	ND	ND	ND	ND	
	SB-3 S-4@10-10.5'	9/16/2015	10	<b>0.15</b>	<b>0.022</b>	<b>0.57</b>	<b>0.33</b>	ND	ND	ND	ND	ND	
	SB-3 S-6@14.5-15'	9/16/2015	14.5	<b>3.0</b>	<b>3.3</b>	<b>19</b>	<b>0.28</b>	<b>3.9</b>	<b>0.033</b>	ND	ND	ND	
	SB-3 S-7@15.5-16'	9/16/2015	15.5	<b>0.78</b>	<b>0.047</b>	<b>0.83</b>	ND	ND	ND	ND	ND	ND	
	SB-3 S-8@19.5-20'	9/16/2015	19.5	<b>0.064</b>	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-3 S-9@22.5-23'	9/16/2015	22.5	<b>0.16</b>	<b>0.014</b>	ND	ND	ND	ND	ND	ND	ND	
	SB-4 S-1@1-1.5'	9/16/2015	1	<b>15</b>	<b>0.95</b>	<b>1.4</b>	ND	ND	ND	ND	ND	ND	
	SB-4 S-2@4.5-5'	9/16/2015	4.5	<b>7.8</b>	<b>60</b>	<b>11</b>	ND	ND	ND	ND	ND	ND	
	SB-4 S-3@9.5-10'	9/16/2015	9.5	ND	<b>0.031</b>	<b>7.8</b>	ND	<b>2.4</b>	ND	ND	ND	ND	
	SB-5 S-1@1-2'	9/16/2015	1	<b>0.050</b>	<b>0.024</b>	<b>0.56</b>	ND	<b>0.10</b>	ND	ND	<b>0.10</b>	ND	
	SB-5 S-2@4-4.5'	9/16/2015	4	ND	ND	<b>0.78</b>	<b>0.14</b>	<b>0.26</b>	ND	ND	ND	ND	
	SB-6 S-1@1-2'	9/17/2015	1	<b>0.026</b>	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-6 S-2@4-5'	9/17/2015	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-7 S-1@1-2'	9/17/2015	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-7 S-2@4-5'	9/17/2015	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-8 S-1@1-2'	9/17/2015	1	<b>0.012</b>	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-8 S-2@4-5'	9/17/2015	4	<b>0.047</b>	<b>0.020</b>	<b>5.2</b>	<b>0.25</b>	<b>0.036</b>	ND	ND	ND	ND	
<b>Environmental Partners Inc./Stratum Group Historical Soil Analytical Results</b>													
B1	B1-4	10/23/2013	4	ND	ND	ND	NA	NA	NA	NA	NA	NA	
B2	B2-9	10/23/2013	9	<b>0.630</b>	<b>0.014</b>	<b>0.014</b>	NA	NA	NA	NA	NA	NA	
	B2-20	10/23/2013	20	<b>0.022</b>	ND	ND	NA	NA	NA	NA	NA	NA	
B3	B3-5	10/23/2013	5	ND	ND	ND	NA	NA	NA	NA	NA	NA	
	B3-15	10/23/2013	15	ND	ND	ND	NA	NA	NA	NA	NA	NA	
B4	B4-7	10/23/2013	7	ND	ND	ND	NA	NA	NA	NA	NA	NA	
SB-1	SB-1-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-1-10	10/15/2014	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-1-15	10/15/2014	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-2	SB-2-2	10/15/2014	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-2-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-2-10	10/15/2014	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-3	SB-3-2	10/15/2014	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-3-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-3-15	10/15/2014	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-4	SB-4-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-4-8	10/15/2014	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-4-14	10/15/2014	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-5	SB-5-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-5-10	10/15/2014	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-5-15	10/15/2014	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-6	SB-6-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-6-13	10/15/2014	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-7	SB-7-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-7-8	10/15/2014	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-7-15	10/15/2014	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
SB-8	SB-8-5	10/15/2014	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-8-9	10/15/2014	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	SB-8-15	10/15/2014	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	
HA-1	HA-1-1	10/24/2014	1	<b>4.8</b>	<b>0.054</b>	<b>0.093</b>	ND	ND	ND	ND	ND	ND	
	HA-1-4	10/24/2014	4	<b>0.250</b>	<b>0.063</b>	<b>14</b>	<b>0.160</b>	<b>0.710</b>	<b>0.028</b>	NA	NA	NA	
HA-2	HA-2-1	10/24/2014	1	ND	ND	ND	ND	ND	ND	NA	NA	NA	
	HA-2-4.5	10/24/2014	4.5	ND	ND	ND	ND	ND	ND	NA	NA	NA	
HA-3	HA-3-0.5	10/24/2014	0.5	<b>1.6</b>	<b>0.200</b>	<b>0.420</b>	ND	ND	ND	NA	NA	NA	
	HA-3-4	10/24/2014	4	<b>0.068</b>	<b>0.028</b>	<b>15.0</b>	<b>0.330</b>	<b>0.320</b>	<b>0.041</b>	NA	NA	NA	

Note: Values detected above laboratory method reporting limits (MRLs) are in **BOLD** type.  
 Values detected above MTCA cleanup levels are in red **BOLD** and shaded.  
 VOCs - volatile organic compounds  
 MTCA - Model Toxics Control Act  
 ND - Not detected above laboratory reporting limit.  
 NE - Not established per the CLARC May 2019 data tables  
 NA - Results not available  
 \* - MTCA Method B Cleanup Level - Unrestricted Land Use  
 † - Only those analytes detected above the laboratory detection limit are included, refer to the analytical report for a complete list of analytes.  
 F3 - Analyte results biased high due to coeluting compound

**TABLE 2**  
**CUMULATIVE SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**  
**View Ridge Plaza**  
**220 Olympic Boulevard**  
**Everett, Snohomish County, Washington**

all concentrations are in micrograms per liter (µg/l)

Boring ID	Sample Name	Sample Date	VOCs <sup>1</sup>										
			Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	Cis-1,2-Dichloroethylene (cis-DCE)	Trans-1,2-Dichloroethylene (trans-DCE)	Vinyl Chloride (VC)	1,1-Dichloroethene (1,1-DCE)	P-Isopropyltoluene	Toluene	Benzene	1,2-Dibromoethane	Chloroethane
<b>MTCA Method A Cleanup Level</b>			<b>5</b>	<b>5</b>	<b>16*</b>	<b>160*</b>	<b>0.20</b>	<b>400*</b>	<b>NE</b>	<b>1,000</b>	<b>5</b>	<b>0.01</b>	<b>NE</b>
<b>Terracon Groundwater Analytical Results 2019</b>													
MW-4	MW-4	6/13/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
MW-5	MW-5	6/13/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
MW-8	MW-8	6/13/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
MW-9	MW-9	6/13/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
MW-10	MW-10	6/13/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
<b>Terracon Dogwood Elm Creek Water Analytical Results 2019</b>													
Culvert In	Culvert In	6/5/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
Culvert Out	Culvert Out	6/5/19	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
<b>Terracon Groundwater Analytical Results 2015</b>													
MW-1	MW-1	9/3/2015	ND (<2.0)	ND (<2.0)	<b>3.8</b>	ND (<2.0)	<b>0.66</b>	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
MW-2	MW-2	9/3/2015	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
MW-3	MW-3	9/3/2015	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
SB-1	SB-1-W	9/17/2015	ND (<500)	ND (<500)	<b>13,000</b>	ND (<500)	<b>830</b>	ND (<500)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
SB-2	SB-2-W	9/17/2015	ND (<200)	<b>340</b>	<b>3,600</b>	<b>29</b>	<b>240</b>	<b>6.9</b>	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	<b>15</b>
SB-3	SB-3-W	9/17/2015	<b>24,000</b>	<b>2,100</b>	<b>4,700</b>	ND (<200)	<b>750</b>	ND (<2.0)	ND (<2.0)	<b>2</b>	ND (<2.0)	ND (<0.010)	<b>10</b>
DP1	DP1-W	9/17/2015	<b>330</b>	<b>42</b>	<b>54</b>	ND (<2.0)	<b>2.8</b>	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
DP2	DP2-W	9/17/2015	<b>21</b>	<b>3</b>	<b>4.6</b>	ND (<2.0)	<b>0.46</b>	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
DP3	DP3-W	9/17/2015	<b>13,000</b>	<b>870</b>	<b>1100</b>	<b>3</b>	<b>66</b>	<b>7.1</b>	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.010)	ND (<2.0)
<b>Environmental Partners Inc 2014 &amp; Stratum Group 2013 Historical Groundwater Analytical Results</b>													
MW-A	MW-A	10/24/2013	NA	NA	NA	NA	NA	NA	NA	ND (<1.0)	ND (<1.0)	NA	NA
MW-B	MW-B	10/24/2013	NA	NA	NA	NA	NA	NA	NA	ND (<1.0)	ND (<1.0)	NA	NA
MW-C	MW-C	10/24/2013	NA	NA	NA	NA	NA	NA	NA	ND (<1.0)	ND (<1.0)	NA	NA
B-1	B1-W	10/24/2013	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	<b>0.67</b>	ND (<2.0)	NA	NA	NA	NA	NA
B-4	B4-W	10/24/2013	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	<b>0.98</b>	ND (<2.0)	NA	NA	NA	NA	NA
B-5	B5-W	10/24/2013	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	<b>0.28</b>	ND (<2.0)	NA	NA	NA	NA	NA
MW-A	MW-A-08/18/14	08/18/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
MW-B	MW-B-08/18/14	08/18/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
MW-C	MW-C-08/18/14	08/18/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
MW-1	MW-1-102414	10/24/2014	ND (<2.0)	ND (<2.0)	<b>8.7</b>	ND (<2.0)	<b>0.33</b>	ND (<2.0)	NA	NA	NA	NA	NA
MW-2	MW-2-102414	10/24/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
MW-3	MW-3-102414	10/24/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
SB-1	SB-1:RGW	10/15/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
SB-3	SB-3:RGW	10/15/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA
SB-6	SB-6:RGW	10/15/2014	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<2.0)	ND (<0.2)	ND (<2.0)	NA	NA	NA	NA	NA

Note: Values detected above laboratory method reporting limits (MRLs) are in **BOLD** type.  
Values detected above MTCA cleanup levels are in red **BOLD** and shaded.

VOCs - Volatile organic compounds  
MTCA - Model Toxics Control Act  
ND - Not detected above laboratory reporting limit.  
NE - Not established per the CLARC May 2019 data tables  
NA - Not Analyzed  
\* - MTCA Method B Cleanup Level - Unrestricted Land Use  
1 - Only analytes detected above laboratory detection limits are included, refer to the analytical report for complete analytes list

**TABLE 3**  
**CUMULATIVE SUMMARY OF GROUNDWATER ELEVATION DATA**  
**View Ridge Plaza**  
**220 Olympic Boulevard**  
**Everett, Snohomish County, Washington**

Well ID	Sample Date	TOC Elevation (Feet)	Depth to Water (Feet)	Groundwater Elevation (Feet)
MW-A Screened 5-15 feet 2-inch well diameter	10/24/13	304.58	4.53	300.05
	11/10/14		9.76	294.82
	9/3/15		10.39	294.19
	4/29/19		9.68	294.90
	6/13/19		10.00	294.58
MW-B Screened 4-15 feet 2-inch well diameter	10/24/13	302.97	8.65	294.32
	11/10/14		7.32	295.65
	9/3/15		8.60	294.37
	4/29/19		7.15	295.82
	6/13/19		NM (car parked over well)	NM (car parked over well)
MW-C Screened 5-25 feet 2-inch well diameter	10/24/13	307.89	10.35	297.54
	11/10/14		3.28	304.61
	9/3/15		4.20	303.69
	4/29/19		3.18	304.71
	6/13/19		3.45	304.44
MW-1 Screened 5-10 feet 3/4-inch well diameter	11/10/14	301.76	4.89	296.87
	9/3/15		5.42	296.34
	4/29/19		4.91	296.85
	6/13/19		5.09	296.67
MW-2 Screened 3-13 feet 3/4-inch well diameter	11/10/14	301.75	4.50	297.25
	9/3/15		4.98	296.77
	4/29/19		4.58	297.17
	6/13/19		4.86	296.89
MW-3 Screened 4-14 feet 3/4-inch well diameter	11/10/14	301.41	8.95	292.46
	9/3/15		9.25	292.16
	4/29/19		8.86	292.55
	6/13/19		8.95	292.46
MW-4 Screened 3-13 feet 2-inch well diameter	4/29/19	300.66	2.69	297.97
	6/13/19		3.11	297.55
MW-5 Screened 3-18 feet 2-inch well diameter	4/29/19	300.74	3.03	297.71
	6/13/19		3.17	297.57
MW-6 Screened 5-15 feet 2-inch well diameter	4/29/19	302.18	9.29	292.89
	6/13/19		9.35	292.83
MW-7 Screened 35-45 feet 2-inch well diameter	4/29/19	302.81	NM (dry)	NM (dry)
	6/13/19		NM (dry)	NM (dry)
MW-8 Screened 3.5-18.5 feet 2-inch well diameter	6/13/19	299.83	2.71	297.12
MW-9 Screened 4-19 feet 2-inch well diameter	6/13/19	301.69	5.30	296.39
MW-10 Screened 4-19 feet 2-inch well diameter	6/13/19	302.48	5.42	297.06

TOC - top of casing  
NM - not measured

**Table 4. Site Specific Remedial Action Technology Screening**

			Effectiveness	Long-Term Reliability	Implementability	Implementation Risk	Cost	Screening Comments	Retained For Further Consideration
Institutional Controls	Environmental Covenant	Implement a deed restriction to restrict excavation of contaminated soils and the use of groundwater	Effective if used as an element of an overall cleanup action plan	Low	Low	Low	Low	Does not address soil and groundwater impacts. Relies upon regulatory approval of environmental covenant.	Yes
In – Situ Treatment	Monitored Natural Attenuation	Using natural processes to reduce contaminant levels to acceptable concentrations.	Presence of elevated concentrations on the groundwater table suggests natural attenuation would be minimally effective.	Moderate	Low	Low	Low	Requires no additional treatment. Costs are for longer term monitoring. May allow contamination to migrate elsewhere on the site or off-site. Retained as a potential component of other cleanup actions. May not address potential exposure pathways during redevelopment.	No
	Chemical Reduction/Anaerobic Biodegradation	Addition of activated carbon, sulfate reduction media, micronutrients, and microbes to absorb and degrade contaminants in soil and groundwater	Can be an effective method of degrading various forms of cVOCs present on or in soil and groundwater. May be applied as a barrier wall	High	Moderate	Low	Moderate	Does not rely on the presence of microbial populations in the subsurface. Would continue degradation of impacted groundwater as plume migrated through treated area. Can function in both aerobic and anaerobic environments.	Yes
	Chemical Oxidation	Chemical oxidation involves the injection of reactive chemical oxidants into groundwater and/or soil for the primary purpose of rapid contaminant destruction	Can be a very effective method of degrading various contaminants present on or in groundwater.	High	Moderate	Moderate	Moderate	Highly corrosive oxidants may react with unwanted surface or subsurface features. Chemical oxidation by-products and off-gassing may corrode subsurface features (utilities, hoists, etc.) Oxidation is non-selective and may interact with organic matter in the subsurface (e.g. peat)	No
	Combined Soil Vapor Extraction/Air Sparging	Volatile components are stripped from groundwater with air. Volatile components are subsequently extracted from the vadose zone via an applied vacuum.	Can be an effective method of removing various forms of cVOCs.	Moderate	Difficult	Moderate	High	Heterogeneities in the aquifer may not allow for air to reach all contaminated groundwater. Requires surface or subsurface appurtenances at the site.	No
Ex-Situ Treatment	Dual-Phase Extraction	A high vacuum system is applied to simultaneously remove contaminated ground water and volatile components from the subsurface.	Can be effective for dissolved contamination.	Low	Difficult	Low	High	Requires construction of a water and vapor treatment system or disposal option. Requires continued operation of system. Does not address soil or groundwater impacts in inaccessible areas.	No
	Pump & Treat	Pump contaminated groundwater and treat at the surface.	Effective for groundwater removal in local area, but not soil source areas	Low	Difficult	Low	High	Requires construction of a water treatment system or disposal option. Requires surface or subsurface appurtenances in the treatment area. Does not address contamination in inaccessible areas.	No
Remedial Excavation and Remedial Backfill Amendment	Remedial Excavation	Remediation by excavation, source removal of contaminated soil and dispose off-site. Backfill with remedial amendment chemical treatment in the saturated zone to further degrade residual groundwater contamination, if any.	Effective for soil source removal and groundwater. Effective at further attenuating post remediation residual groundwater contamination, if any.	High	Moderate	Low	Moderate	Source removal of soil contamination and increased biodegradation of residual groundwater contamination, if any. Requires costly shoring and excavation logistics.	Yes

## **APPENDIX C – BORING AND WELL LOGS**

# WELL LOG NO. MW-4

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197152 SOIL BORING LOGS.GPJ TERRACON\_DATATEMPLATE.GDT 4/30/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH						
0.3	<b>ASPHALT</b>	-Well monument					
0.5	<b>AGGREGATE BASE COURSE</b>	Blank 2" PVC pipe with bentonite seal					
1.0	<b>TOPSOIL</b>						
2.3	<b>SAND (SP)</b> , gray						
	<b>SILT (ML)</b> , tan and orange			▽		0.6	
	higher sand content	Slotted 2" PVC pipe with sand filter pack	5		☞	0.7	MW4-6
						0.6	
			10		☞	0.4	MW4-12
	<b>CLAY (CL)</b> , gray, light gray laminations					0.5	
		Bentonite	15			0.2	
		Slough					
			20				
	<b>Boring Terminated at 20 Feet</b>						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push		Notes: Well # BLN 788
Abandonment Method:		
<b>WATER LEVEL OBSERVATIONS</b>		
▽ <i>measured after setting and developing well</i>		Well Started: 04-26-2019 Well Completed: 04-26-2019
	21905 64th Ave W, Ste 100 Mountlake Terrace, WA	Drill Rig: Geoprobe 3230DT Driller: AEC
		Project No.: 81197152 Exhibit: MW-1

# WELL LOG NO. MW-5

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197152 SOIL BORING LOGS.GPJ TERRACON\_DATATEMPLATE.GDT 4/30/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH						
	MATERIAL DESCRIPTION						
0.3	<b>ASPHALT</b>	-Well monument					
1.0	<b>TOPSOIL</b>	Blank 2" PVC pipe with bentonite seal					
2.3	<b>SAND (SP)</b> , gray					1.1	
6.5	<b>SILT (ML)</b> , tan and orange		5	▽		0.4	
19.8	<b>CLAY (CL)</b> , gray, light gray laminations				☞	1.0	MW5-6.5
20.0	<b>SILT (ML)</b> , tan	Slotted 2" PVC pipe with sand filter pack	10		☞	1.1	MW5-9
			15			0.3	
			20			0.8	
		-Bentonite				0.3	
	<b>Boring Terminated at 20 Feet</b>						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push		Notes: Well # BLN 789
Abandonment Method:		
<b>WATER LEVEL OBSERVATIONS</b>		
▽ measured after setting and developing well	<b>Terracon</b>	Well Started: 04-26-2019 Well Completed: 04-26-2019
	21905 64th Ave W, Ste 100 Mountlake Terrace, WA	Drill Rig: Geoprobe 3230DT Driller: AEC
		Project No.: 81197152 Exhibit: MW-2

# WELL LOG NO. MW-6

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197152 SOIL BORING LOGS.GPJ TERRACON.DATATEMPLATE.GDT 4/30/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH						
	MATERIAL DESCRIPTION						
0.3	<b>ASPHALT</b>						
0.5	<b>AGGREGATE BASE COURSE</b>	-Well monument				0.4	
	<b>SILT (ML)</b> , gray					0.3	
2.3	<b>SAND (SW)</b> , tan	Blank 2" PVC pipe with bentonite seal					
	gray, with wood		5	☹		0.6	MW6-6
	wet, some wood		10	☹		0.5	
11.5	<b>CLAY (CL)</b> , tan and orange	Slotted 2" PVC pipe with sand filter pack				0.5	MW6-13
	gray		15	☹		0.6	
20.0	<b>Boring Terminated at 20 Feet</b>	-Bentonite	20				

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push		Notes: Well # BLN 790
Abandonment Method:		
<b>WATER LEVEL OBSERVATIONS</b>		Well Started: 04-25-2019 Well Completed: 04-25-2019
☹ water-bearing soil		Drill Rig: Geoprobe 3230DT
☹ measured after setting and developing well	21905 64th Ave W, Ste 100 Mountlake Terrace, WA	Driller: AEC
		Project No.: 81197152
		Exhibit: MW-3

# WELL LOG NO. MW-7

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197152 SOIL BORING LOGS.GPJ TERRACON\_DATATEMPLATE.GDT 4/30/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH	Well Completion: Monument					
0.3	<b>ASPHALT</b>						
0.5	<b>AGGREGATE BASE COURSE</b>						
0.8	<b>SILT (ML)</b> , gray					1.1	
	<b>SAND (SP)</b> , gray and tan	-Well monument →					
5.0	<b>CLAY (CL)</b> , green		5			0.9	
	tan					0.8	
10.0	<b>SANDY LEAN CLAY (CL)</b> , gray and green, wet		10				
11.0	<b>CLAY (CL)</b> , tan				☞	0.2	MW7-12
	gray					0.3	
		Blank 2" PVC pipe with bentonite seal →	15			1.8	
			20			0.9	
	light gray laminations						

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push and auger		Notes: Well # BLN 791
Abandonment Method:		
<b>WATER LEVEL OBSERVATIONS</b>	<i>Groundwater not encountered</i>	
	21905 64th Ave W, Ste 100 Mountlake Terrace, WA	
	Well Started: 04-25-2019	Well Completed: 04-25-2019
	Drill Rig: Geoprobe 3230DT	Driller: AEC
	Project No.: 81197152	Exhibit: MW-4

# WELL LOG NO. MW-7

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197152 SOIL BORING LOGS.GPJ TERRACON.DATATEMPLATE.GDT 4/30/19

GRAPHIC LOG	LOCATION See Exhibit 2		DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH	MATERIAL DESCRIPTION					
	25.0	<b>CLAY (CL)</b> , tan (continued)	25			2.6	
	26.3	tan					
		<b>SAND (SW)</b> , tan				0.8	
		2-inch tan silt lens					
	30.0		30			0.4	
		<b>SILT (ML)</b> , tan				0.3	
	31.5	gray increasing sand content					
		<b>SAND WITH GRAVEL (SW)</b> , tan increasing gravel content				0.2	
		decreasing gravel content					
	44.0						
		<b>CLAY (CL)</b> , tan, laminated					
	45.0		45			0.3	MW7-45
<b>Boring Terminated at 45 Feet</b>							

Slotted 2" PVC pipe with sand filter pack

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push and auger		Notes:	
Abandonment Method:			
<b>WATER LEVEL OBSERVATIONS</b>		Well Started: 04-25-2019	Well Completed: 04-25-2019
<i>Groundwater not encountered</i>		Drill Rig: Geoprobe 3230DT	Driller: AEC
	21905 64th Ave W, Ste 100 Mountlake Terrace, WA	Project No.: 81197152	Exhibit: MW-5

# WELL LOG NO. MW-8

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197255 SOIL BORING LOGS.GPJ TERRACON.DATATEMPLATE.GDT 6/14/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH MATERIAL DESCRIPTION	Well Completion: Monument					
0.3	<b>ASPHALT</b>						
	<b>SILT WITH SAND (ML)</b> , brown to gray, trace gravel	-Well monument				0.6	
4.5	<b>SAND WITH SILT (SP-SM)</b> , gray, fine to medium grained, wet	Blank 2" PVC pipe with bentonite seal	5	▽	Hand	0.5	MW-8-4
7.5	<b>SILT (ML)</b> , gray					0.9	
10.0	<b>SAND (SP)</b> , dark gray, coarse grained		10			0.9	
11.0	<b>SILT (ML)</b> , gray					0.4	
15.0	<b>SAND WITH GRAVEL (SP)</b> , gray, wet	Slotted 2" PVC pipe with sand filter pack	15			1.0	
16.0	<b>SILT (ML)</b> , gray						
20.0	<b>Boring Terminated at 20 Feet</b>	-Slough	20				

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push		Notes:	
Abandonment Method:			
<b>WATER LEVEL OBSERVATIONS</b>		Well Started: 06-05-2019	Well Completed: 06-05-2019
▽ water-bearing soil		Drill Rig: Geoprobe 3230DT	Driller: AEC
	<b>Terracon</b> 21905 64th Ave W, Ste 100 Mountlake Terrace, WA	Project No.: 81197152	Exhibit: MW-7

# WELL LOG NO. MW-9

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197255 SOIL BORING LOGS.GPJ TERRACON.DATATEMPLATE.GDT 6/14/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
	DEPTH MATERIAL DESCRIPTION	Well Completion: Monument					
0.3	<b>ASPHALT</b>	-Well monument					
	<b>SAND WITH GRAVEL (SP)</b> , brown, trace silt	Blank 2" PVC pipe with bentonite seal		▽		0.3	
3.0	<b>SILT (ML)</b> , gray to brown, trace gravel, wet		5			0.4	
7.0	<b>SILTY SAND (SM)</b> , gray, wet					0.7	
8.0	<b>SILT (ML)</b> , gray with orange mottling						
	becomes brown, 3" sandy silt with gravel	Slotted 2" PVC pipe with sand filter pack	10			0.8	MW-9 -10
	6" sandy silt, wet		15			0.8	
						0.7	
						0.0	
20.0	<b>Boring Terminated at 20 Feet</b>	-Slough	20			0.6	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push		Notes:	
Abandonment Method:			
<b>WATER LEVEL OBSERVATIONS</b>		Well Started: 06-05-2019	Well Completed: 06-05-2019
▽ water-bearing soil		Drill Rig: Geoprobe 3230DT	Driller: AEC
	<b>Terracon</b> 21905 64th Ave W, Ste 100 Mountlake Terrace, WA	Project No.: 81197152	Exhibit: MW-8

# WELL LOG NO. MW-10

**PROJECT:** 220 Olympic

**CLIENT:** Catalyst Capitol  
Washington, D.C.

**SITE:** 220 Olympic Blvd  
Everett, WA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ENVIRONMENTAL SMART LOG 81197255 SOIL BORING LOGS.GPJ TERRACON\_DATATEMPLATE.GDT 6/14/19

GRAPHIC LOG	LOCATION See Exhibit 2	INSTALLATION DETAILS	DEPTH (ft)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	OVA/PID (ppm)	SAMPLE NUMBER
DEPTH	MATERIAL DESCRIPTION	Well Completion: Monument					
0.3	<b>ASPHALT</b>						
	<b>SANDY SILT (ML)</b> , orange to brown	-Well monument				0.6	
	orange mottling	Blank 2" PVC pipe with bentonite seal	5	▽		0.8	
	trace gravel, becomes wet					0.0	
8.0	<b>SILT (ML)</b> , gray					0.4	
	6" sandy silt, wet	Slotted 2" PVC pipe with sand filter pack				0.9	MW-10-12
			15			0.7	
						0.3	
20.0	<b>Boring Terminated at 20 Feet</b>	-Slough	20			0.7	

The stratification lines represent the approximate transition between differing soil types and/or rock types; in-situ these transitions may be gradual or may occur at different depths than shown.

Advancement Method: Direct push		Notes:	
Abandonment Method:			
<b>WATER LEVEL OBSERVATIONS</b>		Well Started: 06-05-2019	Well Completed: 06-05-2019
▽ water-bearing soil		Drill Rig: Geoprobe 3230DT	Driller: AEC
		Project No.: 81197152	Exhibit: MW-1
	21905 64th Ave W, Ste 100 Mountlake Terrace, WA		

## **APPENDIX D – ANALYTICAL REPORTS**



June 17, 2019

Mr. Beau Johnson  
Terracon  
21905 - 64th Ave W, Suite 100  
Mountlake Terrace, WA 98043

Dear Mr. Johnson,

On June 13th, 5 samples were received by our laboratory and assigned our laboratory project number EV19060091. The project was identified as your 81197255. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255  
 CLIENT SAMPLE ID: MW-10-061319

DATE: 6/17/2019  
 ALS JOB#: EV19060091  
 ALS SAMPLE#: EV19060091-01  
 DATE RECEIVED: 06/13/2019  
 COLLECTION DATE: 6/13/2019 7:55:00 AM  
 WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-01
<b>CLIENT SAMPLE ID</b>	MW-10-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 7:55:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	101	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	110	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-02
<b>CLIENT SAMPLE ID</b>	MW-9-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 8:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-02
<b>CLIENT SAMPLE ID</b>	MW-9-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 8:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	102	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	108	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-03
<b>CLIENT SAMPLE ID</b>	MW-8-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 9:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-03
<b>CLIENT SAMPLE ID</b>	MW-8-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 9:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	103	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	110	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-04
<b>CLIENT SAMPLE ID</b>	MW-5-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 10:15:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-04
<b>CLIENT SAMPLE ID</b>	MW-5-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 10:15:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	102	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	111	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-05
<b>CLIENT SAMPLE ID</b>	MW-4-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/14/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/17/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060091
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060091-05
<b>CLIENT SAMPLE ID</b>	MW-4-061319	<b>DATE RECEIVED:</b>	06/13/2019
		<b>COLLECTION DATE:</b>	6/13/2019 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/14/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	103	06/14/2019	DLC
4-Bromofluorobenzene	EPA-8260	111	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/17/2019  
 ALS SDG#: EV19060091  
 WDOE ACCREDITATION: C601

**LABORATORY BLANK RESULTS**

**MB-061319W2 - Batch 142065 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	06/14/2019	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	06/14/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Chloroform	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Toluene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	06/14/2019	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromoform	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	6/17/2019
		ALS SDG#:	EV19060091
CLIENT CONTACT:	Beau Johnson	WDOE ACCREDITATION:	C601
CLIENT PROJECT:	81197255		

**LABORATORY BLANK RESULTS**

**MB-061319W2 - Batch 142065 - Water by EPA-8260**

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	06/14/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/14/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/17/2019  
 ALS SDG#: EV19060091  
 WDOE ACCREDITATION: C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 142065 - Water by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	150		SQ3	50	150	06/14/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	108	33		50	150	06/14/2019	DLC
Chloromethane - BS	EPA-8260	121			50	150	06/14/2019	DLC
Chloromethane - BSD	EPA-8260	97.2	22		50	150	06/14/2019	DLC
Vinyl Chloride - BS	EPA-8260	113			50	150	06/14/2019	DLC
Vinyl Chloride - BSD	EPA-8260	93.2	19		50	150	06/14/2019	DLC
Bromomethane - BS	EPA-8260	121			50	150	06/14/2019	DLC
Bromomethane - BSD	EPA-8260	102	17		50	150	06/14/2019	DLC
Chloroethane - BS	EPA-8260	123			50	150	06/14/2019	DLC
Chloroethane - BSD	EPA-8260	101	20		50	150	06/14/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	133			50	150	06/14/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	109	20		50	150	06/14/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	135			50	150	06/14/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	108	22		50	150	06/14/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	127			72.5	136	06/14/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	104	19		72.5	136	06/14/2019	DLC
Methylene Chloride - BS	EPA-8260	114			50	150	06/14/2019	DLC
Methylene Chloride - BSD	EPA-8260	97.3	16		50	150	06/14/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	122			50	150	06/14/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	101	19		50	150	06/14/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	124			50	150	06/14/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	104	18		50	150	06/14/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	119			50	150	06/14/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	99.9	17		50	150	06/14/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	95.8			50	150	06/14/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	77.8	21		50	150	06/14/2019	DLC
Bromochloromethane - BS	EPA-8260	117			50	150	06/14/2019	DLC
Bromochloromethane - BSD	EPA-8260	99.3	16		50	150	06/14/2019	DLC
Chloroform - BS	EPA-8260	111			50	150	06/14/2019	DLC
Chloroform - BSD	EPA-8260	93.7	17		50	150	06/14/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	126			50	150	06/14/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	104	19		50	150	06/14/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	128			50	150	06/14/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	105	20		50	150	06/14/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	109			50	150	06/14/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	94.3	15		50	150	06/14/2019	DLC
Trichloroethene - BS	EPA-8260	121			74.4	141	06/14/2019	DLC
Trichloroethene - BSD	EPA-8260	100	19		74.4	141	06/14/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	123			50	150	06/14/2019	DLC



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/17/2019  
 ALS SDG#: EV19060091  
 WDOE ACCREDITATION: C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,2-Dichloropropane - BSD	EPA-8260	104	16		50	150	06/14/2019	DLC
Dibromomethane - BS	EPA-8260	118			50	150	06/14/2019	DLC
Dibromomethane - BSD	EPA-8260	103	14		50	150	06/14/2019	DLC
Bromodichloromethane - BS	EPA-8260	122			50	150	06/14/2019	DLC
Bromodichloromethane - BSD	EPA-8260	105	15		50	150	06/14/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	95.5			50	150	06/14/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	82.5	15		50	150	06/14/2019	DLC
Toluene - BS	EPA-8260	123			71.7	139	06/14/2019	DLC
Toluene - BSD	EPA-8260	103	17		71.7	139	06/14/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	101			50	150	06/14/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	86.0	16		50	150	06/14/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	114			50	150	06/14/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	98.0	15		50	150	06/14/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	117			50	150	06/14/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	101	15		50	150	06/14/2019	DLC
Tetrachloroethylene - BS	EPA-8260	129			50	150	06/14/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	110	16		50	150	06/14/2019	DLC
Dibromochloromethane - BS	EPA-8260	116			50	150	06/14/2019	DLC
Dibromochloromethane - BSD	EPA-8260	100	15		50	150	06/14/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	102			50	150	06/14/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	88.3	15		50	150	06/14/2019	DLC
Chlorobenzene - BS	EPA-8260	119			73	131	06/14/2019	DLC
Chlorobenzene - BSD	EPA-8260	100	17		73	131	06/14/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	113			50	150	06/14/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	95.7	17		50	150	06/14/2019	DLC
Bromoform - BS	EPA-8260	112			50	150	06/14/2019	DLC
Bromoform - BSD	EPA-8260	97.6	14		50	150	06/14/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	106			50	150	06/14/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	91.5	14		50	150	06/14/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	104			50	150	06/14/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	90.6	14		50	150	06/14/2019	DLC
Bromobenzene - BS	EPA-8260	112			50	150	06/14/2019	DLC
Bromobenzene - BSD	EPA-8260	94.9	16		50	150	06/14/2019	DLC
2-Chlorotoluene - BS	EPA-8260	115			50	150	06/14/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	96.7	17		50	150	06/14/2019	DLC
4-Chlorotoluene - BS	EPA-8260	118			50	150	06/14/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	99.2	17		50	150	06/14/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	117			50	150	06/14/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	98.4	17		50	150	06/14/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	116			50	150	06/14/2019	DLC

**CERTIFICATE OF ANALYSIS**

**CLIENT:** Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043  
**CLIENT CONTACT:** Beau Johnson  
**CLIENT PROJECT:** 81197255

**DATE:** 6/17/2019  
**ALS SDG#:** EV19060091  
**WDOE ACCREDITATION:** C601

**LABORATORY CONTROL SAMPLE RESULTS**

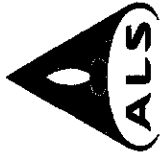
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,4-Dichlorobenzene - BSD	EPA-8260	98.8	16		50	150	06/14/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	118			50	150	06/14/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	100	16		50	150	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	117			50	150	06/14/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	102	13		50	150	06/14/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	109			50	150	06/14/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	94.0	15		50	150	06/14/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	128			50	150	06/14/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	106	19		50	150	06/14/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	108			50	150	06/14/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	94.4	13		50	150	06/14/2019	DLC

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.

APPROVED BY



Laboratory Director



**ALS Environmental**  
 8620 Holly Drive, Suite 100  
 Everett, WA 98208  
 Phone (425) 356-2600  
 Fax (425) 356-2626  
 http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EVI9060091

Date 6/13/19 Page 1 of 1

PROJECT ID: 81197255  
 REPORT TO COMPANY: Terracon  
 PROJECT MANAGER: Beau Johnson  
 ADDRESS: 21905 64th Ave W Ste 100  
Mountlake Terrace WA 98043  
 PHONE: 425-771-3304 P.O. #:  
 E-MAIL: beau.johnson@terracon.com cc: lauren.thompson@terracon.com  
 INVOICE TO COMPANY: @terracon.com  
 ATTENTION:  
 ADDRESS:

ANALYSIS REQUESTED		OTHER (Specify)	
<input type="checkbox"/> NWTPH-HCID			
<input type="checkbox"/> NWTPH-DX			
<input type="checkbox"/> NWTPH-GX			
<input type="checkbox"/> BTEX by EPA 8021			
<input type="checkbox"/> MTBE by EPA 8021			
<input type="checkbox"/> Halogenated Volatiles by EPA 8260			
<input type="checkbox"/> Volatile Organic Compounds by EPA 8260			
<input type="checkbox"/> EDB / EDC by EPA 8260 SIM (water)			
<input type="checkbox"/> EDB / EDC by EPA 8260 (soil)			
<input type="checkbox"/> Semivolatile Organic Compounds by EPA 8270			
<input type="checkbox"/> Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM			
<input type="checkbox"/> PCB by EPA 8082			
<input type="checkbox"/> Pesticides by EPA 8081			
<input type="checkbox"/> Metals-MTCA-6			
<input type="checkbox"/> RCRA-8			
<input type="checkbox"/> Pn Pol			
<input type="checkbox"/> TAL			
<input type="checkbox"/> Metals Other (Specify)			
<input type="checkbox"/> TCLP-Metals			
<input type="checkbox"/> VOA			
<input type="checkbox"/> Semi-Vol			
<input type="checkbox"/> Pest			
<input type="checkbox"/> Herbs			

SAMPLE I.D.	DATE	TIME	TYPE	LAB#	RECEIVED IN GOOD CONDITION?	NUMBER OF CONTAINERS
1. MW-10-061319	6/13/19	0755	H <sub>2</sub> O	1		3
2. MW-9-061319	6/13/19	0850	H <sub>2</sub> O	2		3
3. MW-8-061319	6/13/19	0940	H <sub>2</sub> O	3		3
4. MW-5-061319	6/13/19	1015	H <sub>2</sub> O	4		3
5. MW-4-061319	6/13/19	1050	H <sub>2</sub> O	5		3
6.						
7.						
8.						
9.						
10.						

*Handwritten notes in table:*  
 Row 1: CVOCs by EPA 8260  
 Row 2: X  
 Row 3: X  
 Row 4: X  
 Row 5: X  
 Row 6: X  
 Row 7: LT

**SPECIAL INSTRUCTIONS**

SIGNATURES (Name, Company, Date, Time):  
 1. Relinquished By: [Signature] Terracon 6/13/19 13:08  
 Received By: [Signature] ALS 6/13/19 13:08  
 2. Relinquished By: \_\_\_\_\_  
 Received By: \_\_\_\_\_

TURNAROUND REQUESTED in Business Days\*  
 Organic, Metals & Inorganic Analysis  
 10 Standard  5  3  1 SAME DAY  
 Fuels & Hydrocarbon Analysis  
 5 Standard  3  1 SAME DAY

OTHER:  
 Specify: Results by Monday 6/17

\*Turnaround request less than standard may incur Rush Charges



June 7, 2019

Mr. Beau Johnson  
Terracon  
21905 - 64th Ave W, Suite 100  
Mountlake Terrace, WA 98043

Dear Mr. Johnson,

On June 5th, 8 samples were received by our laboratory and assigned our laboratory project number EV19060026. The project was identified as your 81197255. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255  
 CLIENT SAMPLE ID: Culvert out - 060519

DATE: 6/7/2019  
 ALS JOB#: EV19060026  
 ALS SAMPLE#: EV19060026-01  
 DATE RECEIVED: 06/05/2019  
 COLLECTION DATE: 6/5/2019 10:35:00 AM  
 WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/06/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/06/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-01
<b>CLIENT SAMPLE ID</b>	Culvert out - 060519	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 10:35:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	<b>98.9</b>	06/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	<b>88.1</b>	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-02
<b>CLIENT SAMPLE ID</b>	Culvert in - 060519	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	06/06/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/06/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-02
<b>CLIENT SAMPLE ID</b>	Culvert in - 060519	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/06/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	99.8	06/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	88.1	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-03
<b>CLIENT SAMPLE ID</b>	MW-8-4	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 9:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	06/07/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	06/07/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-03
<b>CLIENT SAMPLE ID</b>	MW-8-4	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 9:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	06/07/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	94.9	06/07/2019	DLC
4-Bromofluorobenzene	EPA-8260	90.4	06/07/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-05
<b>CLIENT SAMPLE ID</b>	MW-9-10	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 11:15:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	06/07/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	06/07/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-05
<b>CLIENT SAMPLE ID</b>	MW-9-10	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 11:15:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	06/07/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	<b>96.0</b>	06/07/2019	DLC
4-Bromofluorobenzene	EPA-8260	<b>94.1</b>	06/07/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-08
<b>CLIENT SAMPLE ID</b>	MW-10-12	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 1:45:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	06/07/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	06/07/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>ALS SAMPLE#:</b>	EV19060026-08
<b>CLIENT SAMPLE ID</b>	MW-10-12	<b>DATE RECEIVED:</b>	06/05/2019
		<b>COLLECTION DATE:</b>	6/5/2019 1:45:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	06/07/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	06/07/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	99.0	06/07/2019	DLC
4-Bromofluorobenzene	EPA-8260	92.3	06/07/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/7/2019  
 ALS SDG#: EV19060026  
 WDOE ACCREDITATION: C601

**LABORATORY BLANK RESULTS**

**MB-060619S - Batch 141745 - Soil by EPA-8260**

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Toluene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	06/06/2019	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/7/2019  
 ALS SDG#: EV19060026  
 WDOE ACCREDITATION: C601

**LABORATORY BLANK RESULTS**

**MB-060619S - Batch 141745 - Soil by EPA-8260**

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.

**MB-060619W - Batch 141739 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	06/06/2019	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	06/06/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Chloroform	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Toluene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	06/06/2019	DLC



**CERTIFICATE OF ANALYSIS**

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	6/7/2019
CLIENT CONTACT:	Beau Johnson	ALS SDG#:	EV19060026
CLIENT PROJECT:	81197255	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-060619W - Batch 141739 - Water by EPA-8260**

Chlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromoform	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	06/06/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	06/06/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/7/2019  
 ALS SDG#: EV19060026  
 WDOE ACCREDITATION: C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 141745 - Soil by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	94.8			50	150	06/06/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	99.4	5		50	150	06/06/2019	DLC
Chloromethane - BS	EPA-8260	97.5			50	150	06/06/2019	DLC
Chloromethane - BSD	EPA-8260	101	4		50	150	06/06/2019	DLC
Vinyl Chloride - BS	EPA-8260	92.0			50	150	06/06/2019	DLC
Vinyl Chloride - BSD	EPA-8260	95.9	4		50	150	06/06/2019	DLC
Bromomethane - BS	EPA-8260	106			50	150	06/06/2019	DLC
Bromomethane - BSD	EPA-8260	120	12		50	150	06/06/2019	DLC
Chloroethane - BS	EPA-8260	97.4			50	150	06/06/2019	DLC
Chloroethane - BSD	EPA-8260	102	4		50	150	06/06/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	104			50	150	06/06/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	107	3		50	150	06/06/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	99.3			50	150	06/06/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	104	5		50	150	06/06/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	90.9			70	130	06/06/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	94.9	4		70	130	06/06/2019	DLC
Methylene Chloride - BS	EPA-8260	122			50	150	06/06/2019	DLC
Methylene Chloride - BSD	EPA-8260	126	3		50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	99.7			50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	101	1		50	150	06/06/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	96.7			50	150	06/06/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	99.9	3		50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	107			50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	112	5		50	150	06/06/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	101			50	150	06/06/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	106	5		50	150	06/06/2019	DLC
Bromochloromethane - BS	EPA-8260	96.4			50	150	06/06/2019	DLC
Bromochloromethane - BSD	EPA-8260	101	5		50	150	06/06/2019	DLC
Chloroform - BS	EPA-8260	105			50	150	06/06/2019	DLC
Chloroform - BSD	EPA-8260	110	4		50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	97.1			50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	100	3		50	150	06/06/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	105			50	150	06/06/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	108	3		50	150	06/06/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	101			50	150	06/06/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	103	2		50	150	06/06/2019	DLC
Trichloroethene - BS	EPA-8260	99.5			75	136	06/06/2019	DLC
Trichloroethene - BSD	EPA-8260	101	1		75	136	06/06/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	97.7			50	150	06/06/2019	DLC



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/7/2019  
 ALS SDG#: EV19060026  
 WDOE ACCREDITATION: C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,2-Dichloropropane - BSD	EPA-8260	99.4	2		50	150	06/06/2019	DLC
Dibromomethane - BS	EPA-8260	102			50	150	06/06/2019	DLC
Dibromomethane - BSD	EPA-8260	105	3		50	150	06/06/2019	DLC
Bromodichloromethane - BS	EPA-8260	101			50	150	06/06/2019	DLC
Bromodichloromethane - BSD	EPA-8260	103	2		50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	108			50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	112	4		50	150	06/06/2019	DLC
Toluene - BS	EPA-8260	102			71.6	122.1	06/06/2019	DLC
Toluene - BSD	EPA-8260	104	2		71.6	122.1	06/06/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	113			50	150	06/06/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	114	1		50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	102			50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	105	3		50	150	06/06/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	95.0			50	150	06/06/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	98.2	3		50	150	06/06/2019	DLC
Tetrachloroethylene - BS	EPA-8260	86.7			50	150	06/06/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	87.9	1		50	150	06/06/2019	DLC
Dibromochloromethane - BS	EPA-8260	92.7			50	150	06/06/2019	DLC
Dibromochloromethane - BSD	EPA-8260	95.0	2		50	150	06/06/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	102			50	150	06/06/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	105	3		50	150	06/06/2019	DLC
Chlorobenzene - BS	EPA-8260	95.8			79	128	06/06/2019	DLC
Chlorobenzene - BSD	EPA-8260	100	5		79	128	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	91.8			50	150	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	95.1	4		50	150	06/06/2019	DLC
Bromoform - BS	EPA-8260	101			50	150	06/06/2019	DLC
Bromoform - BSD	EPA-8260	105	4		50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	105			50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	107	3		50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	106			50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	109	2		50	150	06/06/2019	DLC
Bromobenzene - BS	EPA-8260	101			50	150	06/06/2019	DLC
Bromobenzene - BSD	EPA-8260	103	2		50	150	06/06/2019	DLC
2-Chlorotoluene - BS	EPA-8260	109			50	150	06/06/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	111	1		50	150	06/06/2019	DLC
4-Chlorotoluene - BS	EPA-8260	114			50	150	06/06/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	116	2		50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	101			50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	103	3		50	150	06/06/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	98.0			50	150	06/06/2019	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS SDG#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,4-Dichlorobenzene - BSD	EPA-8260	101	3		50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	104			50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	109	4		50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	111			50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	113	1		50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	108			50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	111	3		50	150	06/06/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	94.4			50	150	06/06/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	94.7	0		50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	108			50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	113	4		50	150	06/06/2019	DLC

**ALS Test Batch ID: 141739 - Water by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	105			50	150	06/06/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	103	3		50	150	06/06/2019	DLC
Chloromethane - BS	EPA-8260	107			50	150	06/06/2019	DLC
Chloromethane - BSD	EPA-8260	102	4		50	150	06/06/2019	DLC
Vinyl Chloride - BS	EPA-8260	101			50	150	06/06/2019	DLC
Vinyl Chloride - BSD	EPA-8260	98.1	3		50	150	06/06/2019	DLC
Bromomethane - BS	EPA-8260	114			50	150	06/06/2019	DLC
Bromomethane - BSD	EPA-8260	106	8		50	150	06/06/2019	DLC
Chloroethane - BS	EPA-8260	101			50	150	06/06/2019	DLC
Chloroethane - BSD	EPA-8260	103	2		50	150	06/06/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	110			50	150	06/06/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	108	2		50	150	06/06/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	111			50	150	06/06/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	105	5		50	150	06/06/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	97.7			72.5	136	06/06/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	96.3	1		72.5	136	06/06/2019	DLC
Methylene Chloride - BS	EPA-8260	103			50	150	06/06/2019	DLC
Methylene Chloride - BSD	EPA-8260	102	1		50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	104			50	150	06/06/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	102	2		50	150	06/06/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	101			50	150	06/06/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	98.4	3		50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	111			50	150	06/06/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	109	2		50	150	06/06/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	113			50	150	06/06/2019	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	6/7/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS SDG#:</b>	EV19060026
<b>CLIENT PROJECT:</b>	81197255	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
2,2-Dichloropropane - BSD	EPA-8260	112	1		50	150	06/06/2019	DLC
Bromochloromethane - BS	EPA-8260	99.2			50	150	06/06/2019	DLC
Bromochloromethane - BSD	EPA-8260	99.6	0		50	150	06/06/2019	DLC
Chloroform - BS	EPA-8260	111			50	150	06/06/2019	DLC
Chloroform - BSD	EPA-8260	111	0		50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	103			50	150	06/06/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	101	2		50	150	06/06/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	111			50	150	06/06/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	108	3		50	150	06/06/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	103			50	150	06/06/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	103	1		50	150	06/06/2019	DLC
Trichloroethene - BS	EPA-8260	104			74.4	141	06/06/2019	DLC
Trichloroethene - BSD	EPA-8260	103	1		74.4	141	06/06/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	99.4			50	150	06/06/2019	DLC
1,2-Dichloropropane - BSD	EPA-8260	99.6	0		50	150	06/06/2019	DLC
Dibromomethane - BS	EPA-8260	98.9			50	150	06/06/2019	DLC
Dibromomethane - BSD	EPA-8260	103	4		50	150	06/06/2019	DLC
Bromodichloromethane - BS	EPA-8260	103			50	150	06/06/2019	DLC
Bromodichloromethane - BSD	EPA-8260	103	0		50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	111			50	150	06/06/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	115	3		50	150	06/06/2019	DLC
Toluene - BS	EPA-8260	105			71.7	139	06/06/2019	DLC
Toluene - BSD	EPA-8260	105	0		71.7	139	06/06/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	116			50	150	06/06/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	117	1		50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	105			50	150	06/06/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	106	0		50	150	06/06/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	98.9			50	150	06/06/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	98.0	1		50	150	06/06/2019	DLC
Tetrachloroethylene - BS	EPA-8260	95.0			50	150	06/06/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	96.2	1		50	150	06/06/2019	DLC
Dibromochloromethane - BS	EPA-8260	96.3			50	150	06/06/2019	DLC
Dibromochloromethane - BSD	EPA-8260	95.7	1		50	150	06/06/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	106			50	150	06/06/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	105	1		50	150	06/06/2019	DLC
Chlorobenzene - BS	EPA-8260	102			73	131	06/06/2019	DLC
Chlorobenzene - BSD	EPA-8260	99.6	3		73	131	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	97.1			50	150	06/06/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	94.5	3		50	150	06/06/2019	DLC
Bromoform - BS	EPA-8260	103			50	150	06/06/2019	DLC



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197255

DATE: 6/7/2019  
 ALS SDG#: EV19060026  
 WDOE ACCREDITATION: C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Bromoform - BSD	EPA-8260	105	2		50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	104			50	150	06/06/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	108	4		50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	106			50	150	06/06/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	108	2		50	150	06/06/2019	DLC
Bromobenzene - BS	EPA-8260	106			50	150	06/06/2019	DLC
Bromobenzene - BSD	EPA-8260	105	0		50	150	06/06/2019	DLC
2-Chlorotoluene - BS	EPA-8260	113			50	150	06/06/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	112	0		50	150	06/06/2019	DLC
4-Chlorotoluene - BS	EPA-8260	117			50	150	06/06/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	117	0		50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	104			50	150	06/06/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	105	1		50	150	06/06/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	103			50	150	06/06/2019	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	102	1		50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	108			50	150	06/06/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	109	1		50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	109			50	150	06/06/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	114	4		50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	112			50	150	06/06/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	115	3		50	150	06/06/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	98.3			50	150	06/06/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	97.4	1		50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	112			50	150	06/06/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	115	3		50	150	06/06/2019	DLC

APPROVED BY

Laboratory Director





May 3, 2019

Mr. Beau Johnson  
Terracon  
21905 - 64th Ave W, Suite 100  
Mountlake Terrace, WA 98043

Dear Mr. Johnson,

On April 29th, 8 samples were received by our laboratory and assigned our laboratory project number EV19040198. The project was identified as your 81197152. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT: Terracon  
 21905 - 64th Ave W, Suite 100  
 Mountlake Terrace, WA 98043

CLIENT CONTACT: Beau Johnson  
 CLIENT PROJECT: 81197152  
 CLIENT SAMPLE ID: MW4-6

DATE: 5/3/2019  
 ALS JOB#: EV19040198  
 ALS SAMPLE#: EV19040198-01  
 DATE RECEIVED: 04/29/2019  
 COLLECTION DATE: 4/26/2019 10:50:00 AM  
 WDOE ACCREDITATION: C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-01
<b>CLIENT SAMPLE ID</b>	MW4-6	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/26/2019 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	95.1	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	92.4	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-03
<b>CLIENT SAMPLE ID</b>	MW5-6.5	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/26/2019 9:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-03
<b>CLIENT SAMPLE ID</b>	MW5-6.5	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/26/2019 9:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	<b>95.6</b>	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	<b>95.9</b>	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-05
<b>CLIENT SAMPLE ID</b>	MW6-6	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/25/2019 9:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-05
<b>CLIENT SAMPLE ID</b>	MW6-6	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/25/2019 9:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	<b>96.5</b>	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	<b>91.9</b>	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-07
<b>CLIENT SAMPLE ID</b>	MW7-12	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/25/2019 11:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS JOB#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>ALS SAMPLE#:</b>	EV19040198-07
<b>CLIENT SAMPLE ID</b>	MW7-12	<b>DATE RECEIVED:</b>	04/29/2019
		<b>COLLECTION DATE:</b>	4/25/2019 11:05:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**SAMPLE DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/02/2019	DLC

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	<b>94.9</b>	05/02/2019	DLC
4-Bromofluorobenzene	EPA-8260	<b>92.6</b>	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS SDG#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY BLANK RESULTS**

**MB-050219S - Batch 140499 - Soil by EPA-8260**

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	05/02/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Toluene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	05/02/2019	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC

**CERTIFICATE OF ANALYSIS**

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/3/2019
		ALS SDG#:	EV19040198
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Beau Johnson		
CLIENT PROJECT:	81197152		

**LABORATORY BLANK RESULTS**

**MB-050219S - Batch 140499 - Soil by EPA-8260**

1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	05/02/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	05/02/2019	DLC

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS SDG#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 140499 - Soil by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	89.9			50	150	05/02/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	82.6	9		50	150	05/02/2019	DLC
Chloromethane - BS	EPA-8260	90.7			50	150	05/02/2019	DLC
Chloromethane - BSD	EPA-8260	86.9	4		50	150	05/02/2019	DLC
Vinyl Chloride - BS	EPA-8260	90.1			50	150	05/02/2019	DLC
Vinyl Chloride - BSD	EPA-8260	86.6	4		50	150	05/02/2019	DLC
Bromomethane - BS	EPA-8260	93.2			50	150	05/02/2019	DLC
Bromomethane - BSD	EPA-8260	86.1	8		50	150	05/02/2019	DLC
Chloroethane - BS	EPA-8260	94.5			50	150	05/02/2019	DLC
Chloroethane - BSD	EPA-8260	89.2	6		50	150	05/02/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	97.8			50	150	05/02/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	92.4	6		50	150	05/02/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	96.5			50	150	05/02/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	91.9	5		50	150	05/02/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	99.9			70	130	05/02/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	94.4	6		70	130	05/02/2019	DLC
Methylene Chloride - BS	EPA-8260	99.2			50	150	05/02/2019	DLC
Methylene Chloride - BSD	EPA-8260	95.3	4		50	150	05/02/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	99.1			50	150	05/02/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	94.0	5		50	150	05/02/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	91.6			50	150	05/02/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	87.9	4		50	150	05/02/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	102			50	150	05/02/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	96.9	5		50	150	05/02/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	99.6			50	150	05/02/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	92.8	7		50	150	05/02/2019	DLC
Bromochloromethane - BS	EPA-8260	88.8			50	150	05/02/2019	DLC
Bromochloromethane - BSD	EPA-8260	84.9	4		50	150	05/02/2019	DLC
Chloroform - BS	EPA-8260	112			50	150	05/02/2019	DLC
Chloroform - BSD	EPA-8260	105	6		50	150	05/02/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	100			50	150	05/02/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	93.4	7		50	150	05/02/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	98.5			50	150	05/02/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	94.8	4		50	150	05/02/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	88.3			50	150	05/02/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	90.1	2		50	150	05/02/2019	DLC
Trichloroethene - BS	EPA-8260	99.4			75	136	05/02/2019	DLC
Trichloroethene - BSD	EPA-8260	97.7	2		75	136	05/02/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	93.0			50	150	05/02/2019	DLC



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS SDG#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,2-Dichloropropane - BSD	EPA-8260	93.6	1		50	150	05/02/2019	DLC
Dibromomethane - BS	EPA-8260	90.3			50	150	05/02/2019	DLC
Dibromomethane - BSD	EPA-8260	92.4	2		50	150	05/02/2019	DLC
Bromodichloromethane - BS	EPA-8260	92.9			50	150	05/02/2019	DLC
Bromodichloromethane - BSD	EPA-8260	93.7	1		50	150	05/02/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	100			50	150	05/02/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	98.9	1		50	150	05/02/2019	DLC
Toluene - BS	EPA-8260	97.9			71.6	122.1	05/02/2019	DLC
Toluene - BSD	EPA-8260	93.3	5		71.6	122.1	05/02/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	98.0			50	150	05/02/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	99.7	2		50	150	05/02/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	95.0			50	150	05/02/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	94.2	1		50	150	05/02/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	85.6			50	150	05/02/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	86.8	1		50	150	05/02/2019	DLC
Tetrachloroethylene - BS	EPA-8260	108			50	150	05/02/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	107	1		50	150	05/02/2019	DLC
Dibromochloromethane - BS	EPA-8260	91.2			50	150	05/02/2019	DLC
Dibromochloromethane - BSD	EPA-8260	90.4	1		50	150	05/02/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	97.8			50	150	05/02/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	96.8	1		50	150	05/02/2019	DLC
Chlorobenzene - BS	EPA-8260	98.8			79	128	05/02/2019	DLC
Chlorobenzene - BSD	EPA-8260	95.6	3		79	128	05/02/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	94.4			50	150	05/02/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	90.7	4		50	150	05/02/2019	DLC
Bromoform - BS	EPA-8260	101			50	150	05/02/2019	DLC
Bromoform - BSD	EPA-8260	97.6	3		50	150	05/02/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	86.1			50	150	05/02/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	88.3	3		50	150	05/02/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	86.4			50	150	05/02/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	88.1	2		50	150	05/02/2019	DLC
Bromobenzene - BS	EPA-8260	91.2			50	150	05/02/2019	DLC
Bromobenzene - BSD	EPA-8260	92.9	2		50	150	05/02/2019	DLC
2-Chlorotoluene - BS	EPA-8260	92.2			50	150	05/02/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	92.7	1		50	150	05/02/2019	DLC
4-Chlorotoluene - BS	EPA-8260	96.0			50	150	05/02/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	94.0	2		50	150	05/02/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	92.6			50	150	05/02/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	89.9	3		50	150	05/02/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	96.1			50	150	05/02/2019	DLC



**CERTIFICATE OF ANALYSIS**

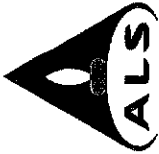
<b>CLIENT:</b>	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	<b>DATE:</b>	5/3/2019
<b>CLIENT CONTACT:</b>	Beau Johnson	<b>ALS SDG#:</b>	EV19040198
<b>CLIENT PROJECT:</b>	81197152	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,4-Dichlorobenzene - BSD	EPA-8260	95.1	1		50	150	05/02/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	91.3			50	150	05/02/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	91.0	0		50	150	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	82.9			50	150	05/02/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	84.8	2		50	150	05/02/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	97.0			50	150	05/02/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	95.5	2		50	150	05/02/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	88.3			50	150	05/02/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	85.4	3		50	150	05/02/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	97.8			50	150	05/02/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	95.4	2		50	150	05/02/2019	DLC

APPROVED BY

Laboratory Director



**ALS Environmental**  
 8620 Holly Drive, Suite 100  
 Everett, WA 98208  
 Phone (425) 356-2600  
 Fax (425) 356-2626  
 http://www.alsglobal.com

# Chain Of Custody/ Laboratory Analysis Request

ALS Job#

EV19040198

Date 4/29/19 Page 1 Of 1

PROJECT ID:	ANALYSIS REQUESTED				LAB#
	NWTPH-HCID	NWTPH-DX	NWTPH-GX		
81197152					
REPORT TO COMPANY:	Terracon				
PROJECT MANAGER:	Beam Johnson				
ADDRESS:	21905 64th Ave W, Ste 100 Mountlake Terrace, WA 98043				
PHONE:	425-771-3304	P.O.#:			
E-MAIL:	beam.johnson@terracon jcl.dobbins@terracon				
INVOICE TO COMPANY:	SAME				
ATTENTION:					
ADDRESS:					
SAMPLE I.D.	DATE	TIME	TYPE		
1. MW4-6	4/26/19	1050	soil		
2. MW4-12	4/26/19	1055			
3. MW5-6.5	4/26/19	0905			
4. MW5-9	4/26/19	0905			
5. MW6-6	4/25/19	0905			
6. MW6-13	4/25/19	0910			
7. MW7-12	4/25/19	1105			
8. MW7-45	4/25/19	1400			
9.					
10.					

SPECIAL INSTRUCTIONS: Ⓚ Add'l by Beam 4/29/19 1:50 pm

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Matthew Terracon 4/29/19 9:30 AM  
 Received By: Jeffrey ALS 4/29/19 9:30 AM

2. Relinquished By: \_\_\_\_\_  
 Received By: \_\_\_\_\_

TURNAROUND REQUESTED in Business Days\*  
 OTHER:

Specify: \_\_\_\_\_

1  2  3  4  5  
SAME DAY

10  15  20  25  30  
Standard

1  2  3  4  5  
SAME DAY

Fuels & Hydrocarbon Analysis

\*Turnaround request less than standard may incur Rush Charges