



Remedial Investigation Work Plan

**Former Cascade Cleaners
Cascade Village
16912 116th Avenue Southeast
Renton, Washington
Facility/Site No.: 59939615**

MBA Cascade Plaza, LLC
July 01, 2022

→ The Power of Commitment

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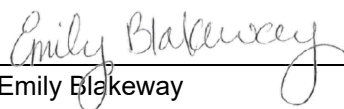
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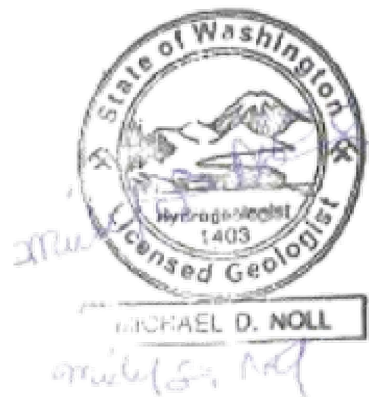
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Emily Blakeway


Michael Noll, LHg; LG



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1. Introduction

1.1 Site Information

<i>Site Name:</i>	Cascade Village - Former Cascade Cleaners
<i>Site Address:</i>	16912 116 th Avenue Southeast Renton, Washington
<i>Facility Site ID:</i>	59939615
<i>Project Consultant:</i>	GHD Services Inc.
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<i>Current Owner/Operator:</i>	MBA Cascade Plaza, LLC

1.2 Purpose

GHD Services Inc. (GHD) has prepared this *Remedial Investigation Work Plan* (RIWP) on behalf of MBA Cascade Plaza, LLC (MBA) for the former Cascade Cleaners located at 16912 116th Avenue SE, Renton, Washington.

This work plan summarizes site characterization findings for the Property and identifies data gaps that will need to be evaluated to complete the RI in accordance with Washington Administrative Code (WAC) 173-340-350. The previous environmental activities described in this document are a summary of historical investigations and documents prepared by previous consultants and activities overseen by GHD. A list of historical environmental documents associated with the dry cleaning solvent release is included in Appendix A.

This RIWP will be submitted to the Washington State Department of Ecology (Ecology) Northwest Regional Office, along with a Voluntary Cleanup Program application and a Request for Opinion on the adequacy of the RIWP proposed scope of work.

2. Site Identification and Description

The former Cascade Cleaners dry cleaning business was located within the Cascade Village shopping center addressed at 16950-17060 116th Avenue Southeast in Renton, King County, Washington (Property; Figure 1). The Property consists of one parcel of land totaling approximately 13.63 acres located on the east side of 116th Avenue Southeast and the north side of 119th Avenue Southeast (King County parcel 282305-9009). Property parcel documents are included in Appendix B.

The Property originally included five structures (Buildings A through E) totaling approximately 102,000 square feet. The structures were built between 1959 and 1985. The former Cascade Cleaners occupied a tenant space (16912 116th Avenue Southeast) within Building C, which was demolished in 2017 (Figure 2). In addition to the structures, the Property is also improved with asphalt-paved parking areas and associated landscaping.

2.1 Site Discovery and Regulatory Status

The release of the dry cleaning solvents tetrachloroethene (also known as perchloroethylene or PCE) and possibly trichloroethylene (TCE) to soil at the former dry cleaner were discovered during a subsurface investigation conducted at the vacant tenant space in 2015. PCE and/or TCE concentrations exceeding the Washington State Model Toxics

Control Act (MTCA) Method A cleanup levels were encountered at depths ranging from approximately 5.5 to 7 feet below ground surface (bgs) beneath the former dry cleaning tenant space. No specific equipment failure, reported spill, or other source was identified at the time of discovery.

The former dry cleaner facility is listed in the Ecology small quantity generator database as Facility/Site ID 59939615. The site was listed as a non-generator of hazardous waste in 2008. No hazardous waste violations were found. The facility is not currently listed in Ecology's Toxics Cleanup Program database.

The MTCA site (Site) is defined as all affected areas from the dry cleaning solvent compounds associated with the Property and potentially impacted adjacent parcels. The approximate MTCA Site boundary is presented on Figure 2. MTCA Method A or MTCA Method B cleanup levels for soil, groundwater, and soil vapor will be used as screening levels for purposes of discussion of investigation results. Preliminary cleanup levels are more fully developed and discussed in Section 7.

A chronological summary of all previous investigations and interim remedial activities completed at the Site is included in Appendix A. All soil, groundwater, and soil vapor sample data available for the Site are provided in Tables 1 through 3, respectively.

2.2 Property and Site Use/Location

The Property is a shopping center with four existing buildings (Buildings A, B, D, and E). Building C was demolished in 2017. The building was a 5,778-square-foot masonry structure built in 1960. A copy of the demolition permit is included in Appendix B. Cascade Cleaners operated in Building C from at least 1977 until approximately 2010. The former dry cleaner equipment room was located on the west side of the tenant space near the alleyway (Figure 2).

The Cascade Village shopping center historically included a Quality Foods Center (QFC) supermarket in Building A, a Bartell Drugs store in Building B, various tenant spaces in Building C, a bowling alley in Building D, and a Texaco service station at Building E. A lease agreement for Building A with Impact Public Schools was completed in 2021. Building B is currently occupied by various tenants. Building D was converted to a Hooter's sports bar and restaurant in 2009, but has been vacant since 2011. Building E has been remodeled and is currently a barber shop and salon. The Property is mostly paved or covered with buildings. A car wash structure was located south of Building A between 1968 and 1985 (Figure 3). Building C was demolished in 2017.

2.3 Neighborhood Setting and Zoning

The Property is located within a mixed residential and commercial area. Baseball fields are located to the north, 116th Avenue SE followed by commercial and single-family residences are located to the west, a commercial shopping center and apartments are located to the south, and single-family residences are located to the east. An area map showing surrounding properties is included as Figure 3. Adjoining properties consist of the following:

- North: The Property is bounded to the north by baseball fields.
- East: The Property is bounded to the east by single-family residences built in the 1950s.
- South: The Property is bounded to the south by additional Cascade Village buildings built in 1986 and used for offices, martial arts and dance studios, gyms, and salons. The apartment complex to the southeast was constructed in 1985.
- West: The Property is bounded to the west by 116th Avenue SE, with commercial and residential developments located west of the street.

According to an online City of Renton Zoning Map accessed on May 15, 2022, the Property and surrounding parcels are designated as Commercial Arterial (CA). According to the City of Renton Comprehensive Plan, the purpose of the CA Zone is to evolve from "strip commercial" linear business districts to business areas characterized by enhanced site planning and pedestrian orientation, incorporating efficient parking lot design, coordinated access, amenities and boulevard treatment with greater densities. The CA Zone provides for a wide variety of retail sales, services, and other commercial activities along high-volume traffic corridors. Residential uses may be integrated into the zone through mixed-use buildings. Zoning maps are included in Appendix B.

2.4 Utilities and Water Supply

Utilities in the alleyway located west of former Building C include a 4-inch diameter ductile iron water main, a natural gas main, a shallow private storm sewer line with two catch basins, and overhead electrical lines. Based on a ground penetrating radar (GPR) survey conducted in the alleyway in August 2020, the underground utilities are buried 4 to 6 feet bgs. Storm water in the alleyway storm drain system flows south and east to the southeast corner of the Property where it connects to a City of Renton storm sewer main located in the 119th Avenue SE right of way. A Soos Creek Water and Sewer District 8-inch diameter sanitary sewer main buried approximately 7 to 9 feet bgs is located east of Building B (Figure 2). The sewer main drains to the south from Manhole 144-4 located east of the northeast corner of former Building C and reportedly discharges to the King County South Treatment Plant in Renton. The approximate locations of known utilities at the Site are shown on Figure 2.

Other utilities on or adjacent to the Site include a City of Renton storm sewer main located along the east side of 116th Avenue SE, an overhead 230 kilovolt (kv) Puget Sound Energy (PSE) power line located along the east side of the Property, and a 10-inch diameter ductile iron water main located on the east side of Building B, trending west on the north side of former Building C to 116th Avenue SE. Available City of Renton and Property utility maps are included in Appendix B. Drinking water for the Property is provided by the Soos Creek Water and Sewer District. According to a 2020 report, water for the district is received from Seattle Public Utilities (SPU) via Lake Youngs.

2.5 Past Property Uses and Facilities

Current owner MBA purchased the Property from Cascade Investors in 2007. Cascade Investors purchased the Property from Robert and Carol Ann Masters in 1984. The Property was owned by Cascade Center Inc. in the 1960s and 1970s. The Property was undeveloped from at least 1936. The Property was developed with the current/former structures (Buildings A through E) between 1959 and 1986. Building A was originally built between 1959 and 1960 and operated as a Johnny's Food Center supermarket and a drug store through 1985. In 1986, the Cascade Village shopping center expanded and renovated. As part of this renovation, Building A was expanded to the existing building footprint. Building A occupants were Johnny's Market from 1969 through 1992 and Quality Food Center (QFC) from 1995 through 2005.

Cascade Cleaners (17028 116th Avenue Southeast) occupied a tenant space in Building C and conducted dry cleaning operations from at least 1977 until approximately 2010. A 2007 report prepared by Surveys Inc. reportedly documented that separator water and spent solvents generated by the dry cleaners were stored in 30-gallon drums and recycled through a licensed hazardous waste disposal company. The drums and solvent were reportedly stored on a secondary spill containment pallet. GHD was not provided a copy of the 2007 report for review. GHD understands from MBA that drums associated with the dry cleaners were possibly staged near the southwest corner of Building C. Based on a review of historical reports and King County Assessor records, the following past Property uses and facilities were determined:

Prior to 1944:	Property is undeveloped.
1959 to 1986:	Property is developed as Cascade Village shopping center with five structures (Buildings A through E) totaling 102,000 square feet. Businesses include a supermarket, drug store, bowling alley, Texaco gas station, and tenant spaces.
1977 to 2010:	Cascade Cleaners operates a dry-cleaning business in a Building C tenant space.
1984:	Cascade Investors acquired the shopping center from Robert R and Carol Ann Masters.
2007:	Property is sold to MBA Cascade Plaza, LLC.
2007 to Present:	Property is operated as a shopping center with various tenants.
2017:	Building C is demolished.

2.6 Potential Off-Property Sources of Contamination

Ecology's *What's in My Neighborhood* database identified three facilities within a 0.5-mile radius of the Property, all of which are listed with a Cleanup Complete status. The facilities are listed below.

- Cascade Retail Center (Ecology Facility/Site ID 9788994, Cleanup Site ID 2396, 16840 – 116th Avenue SE): This facility was a former Texaco service station located on the north portion of the Property, north (upgradient) of the former Cascade Cleaners location. A release from the UST system was reported to Ecology in 2003. The facility received a no further action required (NFA) status from Ecology in February 2007.
- 7-Eleven 14441 (Ecology Facility/Site ID 99786418, Cleanup Site ID 16573, 11505 SE 168th Street). This facility is an active convenience store (Figure 3). Soil impacts were discovered during UST decommissioning work in April 2021 and reported to Ecology. The facility received an NFA status from Ecology in April 2022.
- Pierucci Residence (Ecology Facility/Site ID 9363459, Cleanup Site ID 1490, 17023 113th Avenue SE). This is a residential property where solid waste was historically stored in drums and other containers. A complaint was reported to Ecology in 2003 and a site visit investigation was conducted. The facility received an NFA status from Ecology in 2005.

Based on their current regulatory status, it is unlikely that these facilities present a source of contamination to the Site.

3. Natural Conditions

3.1 Geology

The Site lies within the relatively flat flood plain of Big Soos Creek. According to the United States Geological Survey (USGS) Renton, Washington Quadrangle topographic map and the online King County iMAP, the Property is located at an elevation of approximately 445 feet above mean sea level (amsl), and the local topography slopes gently to the southwest. Refer to Figure 1 for a topographic map of the Site vicinity.

The Property lies within the Puget Sound Lowland, a series of north to south trending valleys ranging from British Columbia to Eugene, Oregon and bordered by the Cascade Range to the east and the Olympic Mountains to the west. Surficial soils in the Puget Sound Lowland consist mainly of glacial drift deposited during the last period of glaciation, about 10,000 to 14,000 years ago. Underlying the younger glacial deposits are sediments deposited during previous glacial or interglacial periods. Schuster and others (2015) mapped the surficial geology in the vicinity of the Property as Vashon Till (Qgt), which was deposited directly by glacial ice. The Qgt deposits are described as a mixture of clay, silt, sand, and gravel. It is typically gray to brown (yellowish brown where oxidized), unstratified, and highly compact. The unit is commonly 2 to 10 feet thick, but thicknesses up to 30 feet have been mapped. The Qgt unit has low permeability and porosity, which causes poor drainage. Underlying the Vashon Till is advance outwash (Qga) deposited by streams flowing from the advancing ice sheet. The Qga unit is described as sand and pebble to cobble gravel almost completely devoid of silt or clay. It is typically light gray to light brown, generally unoxidized, poorly to well sorted, and very compact. Locally the advance outwash can be as much as 300 feet thick. The Qga unit has high porosity and permeability.

Based on borings advanced at the Site, underlying soils consist predominantly of fine sand and silty sand with gravel from the ground surface to depths ranging from approximately 25 to 35 feet bgs, underlain by poorly graded gravel and gravel-sand mixtures interbedded with clays and clayey sands to approximately 80 feet bgs. Drilling refusal on dense to very dense soils was encountered in direct push technology (DPT) borings at depths ranging from 5 to 15 feet bgs. All historical soil sampling locations are shown on Figure 4. Cross sections depicting subsurface soils are included as Figures 5 and 6.

3.2 Groundwater

According to a February 2000 South King County Groundwater Management Area Potentiometric Surface Map, regional groundwater beneath the Site is situated in the Vashon advance outwash (Qva) aquifer at an elevation between 350 and 400 feet amsl. The horizontal groundwater gradient in the Qva aquifer at the Site is toward the north and west. A copy of the Potentiometric Surface Map with the Site location labeled is included in Appendix B.

Groundwater beneath the Site has been encountered in a shallow zone (5 to 15 feet bgs), intermediate zone (20 to 40 feet bgs), and deep zone (60 to 80 feet bgs). Groundwater data have been collected from Site monitoring wells between 2015 and 2020. Historical groundwater elevations have been approximately 429 to 442 feet amsl in the shallow zone, 424 to 436 feet amsl in the intermediate zone, and 380 feet amsl in the deep zone. Data indicate that groundwater flow in the shallow and intermediate zones is predominantly toward the southeast. The groundwater flow direction in the deep zone is unknown. Historical measured depth to groundwater and groundwater elevation data for Site monitoring wells are presented in Table 2A.

Municipal and privately owned wells

There are no municipal water supply wells located within 1 mile of the Property.

There is one single-family residence drinking water supply well located within a 1 mile radius of the Site:

- Well Report ID 00093849, well tag ID unknown (Joseph Coffee well) is located approximately 4,500 feet (0.85 mile) northeast (upgradient to cross-gradient) of the Site. The well was installed in April 1979, is 100 feet deep and has no well screen or perforations. Measured depth to groundwater in the well in April 1979 was 60 feet bgs.

Based on the distance from the Site and the upgradient to cross-gradient location, this well is not a potential receptor.

Site Wells

A total of 10 groundwater monitoring wells have been installed at the Site. Well MW-5 was installed in 2003 as part of a leaking underground storage tank (LUST) investigation at the Building E former service station. Wells MW-1 through MW-3 were installed in 2015, wells MW-6A & B and MW-7A & B were installed in 2018, and wells MW-8A & B were installed in 2020. Wells MW-5, MW-6A, MW-7A, and MW-8A are screened in the shallow zone (5 to 15 feet bgs). Wells MW-2, MW-3, MW-6B, MW-7B, and MW-8B are screened in the intermediate zone (20 to 40 feet bgs). Well MW-1 is screened in the deep zone (60 to 80 feet bgs). The locations of all monitoring wells installed at the Site are presented on Figure 2. Well construction details are summarized in Table 4.

3.3 Surface Water

The closest surface water body is Big Soos Creek located approximately 1,000 feet south and west of the Property. Big Soos Creek flows generally south to join the Green River approximately 6.5 miles south of the Property.

3.4 Natural Resources and Ecological Receptors

GHD completed a terrestrial ecological evaluation (TEE) for the Site, which is included in Appendix C. The Site qualifies for exclusion from further evaluation based on the following:

- All contaminated soil is, or will be, covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are proposed to manage remaining contamination.
- The chemicals identified at the Site (halogenated VOCs associated with dry cleaning solvents) are not listed as chemicals of concern under WAC 173-340-7491 and there is less than 1.5 acres of contiguous undeveloped land on or within 500 feet of any area of the Site.

A Site map with a 500-foot radius is included in Appendix C (Figure C-1). Therefore, soil cleanup standards protective of terrestrial species will not be needed.

4. Contaminant Occurrence

The following sections present a discussion of Site characterization and interim remedial action work that has occurred at the Site and a summary of current Site conditions for each affected media. A summary of soil analytical data collected at the Site is presented in Table 1. A summary of groundwater sample analytical data collected from Site monitoring wells is presented in Tables 2A through 2C. A summary of soil vapor analytical data collected at the Site is presented in Table 3. Monitoring well details are presented in Table 4. All available boring logs prepared as part of investigations conducted at the Site are included in Appendix D.

4.1 Summary of Previous Investigation Reports

The following reports were provided to GHD describing investigations that have been completed at the Site:

- Limited Groundwater Sampling Results, ZZA-Terracon, January 23, 2008
- Phase I Environmental Site Assessment, Partner Engineering and Science, Inc. (Partner), May 22, 2015
- Phase II Subsurface Investigation Report, Partner, July 6, 2015
- Phase II Report, Partner, October 13, 2015
- Additional Subsurface Investigation Report, Partner, November 24, 2015
- Field notes and laboratory reports associated with investigations completed by Terracon Consultants, Inc. (Terracon) from 2017 to 2018
- Phase I Environmental Site Assessment, GeoEngineers, Inc. (GeoEngineers), September 17, 2021
- Focused Phase II Environmental Site Assessment, GeoEngineers, November 10, 2021.

4.1.1 2008 Groundwater Sampling Event – MW-5

Groundwater monitoring well MW-5 was installed at the Site in May 2003 as part of a subsurface investigation conducted by Zipper Zeman Associates, Inc. (ZZA) associated with a former Texaco-branded gas station located on the northwestern corner of the Property at Building E (Figure 2). Well MW 5 was installed northeast of the former Cascade Cleaners tenant space (Figure 4). The well boring was advanced to a depth of approximately 12.5 feet bgs using a DPT drilling rig. MW-5 was completed with 2-inch diameter polyvinyl chloride (PVC) well screen (0.010-inch slots) set from approximately 7 to 12.5 feet bgs. A copy of the Resource Protection Well Report boring log prepared by the driller was obtained from the Ecology online Well Log Viewer database and is included in Appendix D. The driller log indicates that silts and sands were encountered from the ground surface to 12.5 feet bgs in the boring. GHD has added the ZZA well designation to the log, for reference.

In January 2008, ZZA-Terracon collected a groundwater sample from MW-5 and submitted the sample for volatile organic compounds (VOCs) analysis, including PCE, TCE, cis-1,2-dichloroethylene (cis-DCE), trans-1,2-dichloroethylene (trans-DCE), 1,1-dichloroethylene (DCE), and vinyl chloride (VC), by United States Environmental Protection Agency (EPA) Method 8260B. The sample results were below the laboratory method reporting limits (MRLs).

4.1.2 2015 Phase I and Phase II Site Assessments

In May 2015, Partner completed a Phase I Environmental Site Assessment Report for the Property on behalf of a real estate company. The Property (Cascade Village) consisted of a 13.63-acre parcel occupied with five structures. Tenants on the Property included various retail and commercial businesses, a private school, and a church. Partner observed a vacant tenant space (reportedly addressed as 17028 116th Avenue Southeast) that was a former dry cleaning facility (Cascade Cleaners).

In June 2015, Partner oversaw the advancement of three soil borings (B1 through B3) within the interior of the dry cleaner tenant space (Figure 4). Borings B1 and B2 were advanced in the former dry cleaner retail area and B3 was

advanced in the former dry cleaning equipment room. The borings were advanced to depths ranging from approximately 5.5 to 7 feet bgs using a DPT drilling rig. Drilling refusal was encountered in each of the borings. Soils encountered in the borings consisted of brown medium to fine sand with gravel from the base of the concrete floor to approximately 2 to 2.5 feet bgs, underlain by dark brown to light brown silt with some sand and gravel to the bottom of the boring. Groundwater was not encountered in the borings. Soil samples collected from the borings were field screened for VOCs using a photoionization detector (PID). PID readings ranged from 0.0 to 263.3 parts per million (ppm). The highest PID readings (5.3 to 263.3 ppm) were reported for the soil samples collected from boring B3 at depths ranging from approximately 2 to 5.5 feet bgs.

One soil sample collected from each boring at depths ranging from 5 to 7 feet bgs was analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, via EPA Method 8260. PCE was detected in soil samples collected at 7 feet bgs from boring B2 and 5.5 feet bgs from boring B3 at concentrations of 2.5 and 4.2 milligrams per kilogram (mg/kg), respectively, exceeding the MTCA Method A screening level of 0.05 mg/kg (Table 1). The B3 sample also contained TCE at a concentration of 0.06 mg/kg, exceeding the MTCA Method A screening level of 0.03 mg/kg. The remaining soil sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

Soil vapor samples were collected from temporary soil vapor probes installed in borings B1 through B3 at approximately 4 feet bgs (samples SG1-4 through SG3-4). Soil vapor samples were analyzed for VOCs using EPA Method TO-15. PCE (530,000 and 19,000 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), TCE (12,000 and 4,900 $\mu\text{g}/\text{m}^3$), and/or trans-DCE (1,400 $\mu\text{g}/\text{m}^3$) were detected in the SG2-4 (B2) and SG3-4 (B3) soil vapor samples, respectively, at concentrations exceeding their respective MTCA Method B sub-slab soil gas screening levels of 320, 11, and 610 $\mu\text{g}/\text{m}^3$ (Table 3). A MTCA Method B sub-slab soil gas screening level has not been established for cis-DCE. The remaining soil vapor sample results were below the laboratory MRLs or below the MTCA Method B sub-slab screening levels.

In September 2015, Partner oversaw the advancement of three additional soil borings (B4 through B6) outside of the former dry cleaner tenant space. Borings B4 and B6 were advanced in the alleyway west of the former dry cleaner and B5 was advanced in the paved parking area east of the former dry cleaner. The borings were advanced to depths ranging from approximately 9 to 12 feet bgs using a DPT drilling rig. Drilling refusal was encountered in each of the borings. Soils encountered in the borings consisted of brown to dark brown medium to fine sand with gravel from the base of the asphalt paving to approximately 2 to 5 feet bgs, underlain by brown to gray silty sand, dark brown gravel and sand, and dark brown silty clay to the bottom of the boring. Groundwater was not encountered in the borings. Soil samples collected from the borings were field screened for VOCs using a PID. PID readings ranged from 0.0 to 122.7 ppm. The highest PID readings (5.9 to 122.7 ppm) were reported for the soil samples collected from boring B4 at depths ranging from approximately 3 to 11 feet bgs.

Two to three soil samples were collected from each boring at depths ranging from approximately 5 to 12 feet bgs and analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. PCE (0.06 to 78 mg/kg) was detected in soil samples collected from borings B4 and B6 at depths ranging from approximately 5 to 12 feet bgs at concentrations exceeding the MTCA Method A screening level. The remaining soil sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels. A groundwater sample collected from monitoring well MW-5 in September 2015 was also analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. The groundwater sample results were below the laboratory MRLs.

Partner oversaw the installation of three groundwater monitoring wells (MW-1 through MW-3) at the Site in November 2015. Wells MW-1 and MW-2 were installed in the alleyway west of the former dry cleaner, and well MW-3 was advanced in the paved parking area southeast of the former dry cleaner. The borings were advanced to depths ranging from approximately 35 to 82 feet bgs using a hollow-stem auger (HSA) drilling rig. Soils encountered in the borings consisted of brown to gray medium to fine sand and silty sand to depths ranging from approximately 20 to 50 feet bgs. Brown and gray clay was encountered in the MW-3 boring to approximately 5 feet bgs. A layer of brown to gray clayey sand and clay was encountered in the MW-2 boring from approximately 10 to 20 feet bgs. Dark gray and tan sand and clay, clayey sand, and clay were encountered in the MW-1 boring from approximately 50 to 70 feet bgs, underlain by tan fine gravel to the bottom of the boring. Groundwater was encountered in the MW-1 boring at 72 feet bgs, MW-2 boring at 32 feet bgs, and MW-3 boring at 25 to 30 feet bgs. Soil samples collected from the borings were

field screened for VOCs using a PID. PID readings ranged from 0.0 to 359 ppm. The highest PID readings (19.6 to 359 ppm) were reported for the soil samples collected from the MW-2 boring at depths ranging from approximately 5 to 35 feet bgs.

Two soil samples collected from each well installation boring at depths ranging from 10 to 45 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, using EPA Method 8260C. The soil samples collected from 15 and 25 feet bgs from the MW-2 boring contained PCE (9.8 and 4.8 mg/kg, respectively) and/or TCE (0.13 mg/kg) at concentrations exceeding the MTCA Method A screening levels. The remaining soil sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

Wells MW-1 through MW-3 were constructed with 2-inch diameter Schedule 40 PVC well screens (0.010-inch slots) and casing. Well MW-1 was screened from approximately 67 to 82 feet bgs, MW-2 was screened from approximately 25 to 40 feet bgs, and MW-3 was screened from approximately 20 to 35 feet bgs. Measured depth to groundwater in the wells in November 2015 following well development were 64.67 feet below the top of the PVC well casing (TOC) at MW-1, 13.91 feet below TOC at MW-2, and 12.01 feet below TOC at MW-3.

Groundwater samples were collected from wells MW-1 through MW-3 in November 2015. The samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, using EPA Method 8260C. The groundwater sample collected from MW-2 contained PCE (6,700 micrograms per liter [$\mu\text{g/L}$]), TCE (77 $\mu\text{g/L}$), cis-DCE (22 $\mu\text{g/L}$), and VC (12 $\mu\text{g/L}$) at concentrations exceeding their respective MTCA Method A or MTCA Method B screening levels of 5 $\mu\text{g/L}$, 5 $\mu\text{g/L}$, 16 $\mu\text{g/L}$, and 0.2 $\mu\text{g/L}$. The remaining groundwater sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

4.2 Additional Site Investigations and Interim Remedial Actions

4.2.1 2017 Site Assessment

Building C, including the former dry cleaner tenant space, was demolished in September and October 2017. The building concrete slab was left in-place. Terracon oversaw the advancement of 8 soil borings (EB-1 through EB-8) in the asphalt-paved alleyway west of former Building C on November 1, 2017, and 8 additional soil borings (EB-9 through EB-16) in the concrete-paved floor of former Building C on November 17, 2017 (Figure 4). The borings were advanced to depths ranging from approximately 8 to 15 feet bgs using a DPT drilling rig. Based on Terracon's *Proposal for Limited Site Investigation* dated October 23, 2017, and *Proposal for Supplemental Limited Site Investigation* dated November 10, 2017, it appears that drilling refusal was encountered in the borings prior to reaching the proposed depth of 20 feet bgs.

According to Terracon field notes provided to GHD, soil samples collected from the borings were field screened for VOCs using a PID. PID readings for soil samples collected from borings EB-1 through EB-8 ranged from 0.1 to 2,079 ppm. The highest PID readings (69.2 to 2,079 ppm) were reported for the soil samples collected from borings EB-1 and EB-2 at depths ranging from approximately 5 to 15 feet bgs. PID readings for soil samples collected from borings EB-9 through EB-16 ranged from 1.7 to 3,316 ppm. Elevated PID readings (12.4 to 3,316 ppm) were reported in all soil samples collected from the borings except for EB-10 at 5 and 12 feet bgs and EB-14 at 5 feet bgs.

Copies of Terracon's boring logs for EB-1 through EB-16 were not provided to GHD. However, Terracon draft geologic cross-sections provided to GHD indicate that soils encountered in the borings generally consisted of silty sand with some thin silt deposits. Copies of Resource Protection Well Report soil boring logs prepared by the driller (Holt Services) for borings advanced at the Site on November 1 and 17, 2017, were obtained from the Ecology online Well Log Viewer database and are included in Appendix D. GHD has added the likely Terracon boring designation to each log, for reference. The driller logs indicate that asphalt and coarse brown sand and gravel were encountered from the ground surface to 5 feet bgs in borings EB-1 through EB-8, underlain by coarse brown sand and gravel and fine brown sand and silt to the bottom of the boring. The driller logs indicate that "Fill material" gravel and fine brown sand and silt were encountered from the ground surface to 5 feet bgs in borings EB-9 through EB-16, underlain by silty brown till with gravels to the bottom of the boring.

Two to four soil samples collected from each boring at depths ranging from approximately 4 to 15 feet bgs were submitted for laboratory analysis. Each sample container was labeled with the project number, date, time, boring number, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS Laboratory Group (ALS), a Washington State certified analytical laboratory located in Everett, Washington, in strict accordance with the industry standard chain of custody protocol. The samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. Copies of the laboratory analytical reports are included in Appendix E.

The soil samples collected from borings EB-1 through EB-4, EB-6, and EB-8 at depths ranging from approximately 5 to 14 feet bgs contained PCE (0.23 to 97 mg/kg) at concentrations exceeding the MTCA Method A screening level (Table 1). The highest PCE concentrations (14 to 97 mg/kg) were detected in the soil samples collected from borings EB-1 and EB-2 at depths ranging from approximately 5 to 14 feet bgs. The soil sample collected from boring EB-2 at approximately 14 feet bgs also contained TCE (0.30 mg/kg) at a concentration exceeding the MTCA Method A screening level. The soil samples collected from borings EB-9 through EB-16 at depths ranging from approximately 4 to 13 feet bgs contained PCE (0.91 to 2,500 mg/kg) at concentrations exceeding the MTCA Method A screening level. The highest PCE concentrations (16 to 2,500 mg/kg) were detected in the soil samples collected from borings EB-9 and EB-11 through EB-16 at depths ranging from approximately 4 to 13 feet bgs. The soil samples collected from borings EB-9 and EB-15 at approximately 5 feet bgs also contained TCE (0.87 and 0.22 mg/kg, respectively) at concentrations exceeding the MTCA Method A screening level. The remaining soil sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

4.2.2 2018 Groundwater Monitoring and Treatment

Terracon collected a groundwater sample from well MW-2 on January 8, 2018. The groundwater sample was collected using a peristaltic pump and low flow sampling techniques, with the sample tubing inlet set approximately mid-screen in the well. Prior to sampling, the well was gauged. Measured depth to groundwater in monitoring well MW-2 on January 8, 2018, was 12.76 feet below TOC. Based on the measured depth to groundwater and the estimated well TOC elevation (443.60 feet) relative to Soos Creek Water and Sewer District sanitary sewer Manhole 144-4 located in the pavement northeast of former Building C, the groundwater elevation at MW-2 was 430.84 feet amsl on January 8, 2018 (Table 2A). Groundwater flow was not measured at the Site because there were an insufficient number of wells completed in each water-bearing zone to determine the horizontal groundwater gradient.

Prior to groundwater sample collection, MW-2 was purged with a peristaltic pump using a low-flow method. During the purging process, groundwater quality parameters, including temperature, electrical conductivity (EC), pH, turbidity, dissolved oxygen (DO), and oxidation reduction potential (ORP), were measured at regular intervals using a water quality meter. Purging was considered complete when three consecutive readings for EC, pH, temperature, turbidity, DO, and ORP were observed within 10 percent of one another. The water quality meter was calibrated in accordance with the manufacturer's specification prior to use. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented in the field.

Once purging was complete, a groundwater sample was collected for laboratory analysis. During the collection of the groundwater sample, the pump discharge was maintained at the same flow rate as used for low flow purging. Each sample container was labeled with the project number, date, time, well number, and sample number. The sample was immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The MW-2 groundwater sample was analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

The sample contained PCE (12,000 µg/L), TCE (310 µg/L), cis-DCE (240 µg/L), and VC (30 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B screening levels (Table 2A). The remaining groundwater sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

The MW-2 groundwater sample was also analyzed for dissolved gases (methane, ethane, and ethene) by the R. S. Kerr EPA Laboratory Method RSK-175 standard operating procedure (SOP); biochemical oxygen demand (BOD) by

Standard Method (SM) 5210B; chloride, nitrate, nitrite, and sulfate by EPA Method 300.0; total and dissolved iron and total and dissolved manganese by EPA Method 200.8; alkalinity by SM 2320B; sulfide by EPA Method 376.1; and total organic carbon (TOC) by SM 5310C. The dissolved iron and dissolved manganese samples were field-filtered using a 40-micron filter. Methane (0.030 milligrams per liter [mg/L]), chloride (9.1 mg/L), sulfate (16 mg/L), total iron (72 µg/L), total and dissolved manganese (both at 130 µg/L), alkalinity (94 mg/L), and TOC (1.3 mg/L) were reported for the sample (Table 2B).

A separate sample was collected for microbial analysis using a Bio-Flo filter provided by the laboratory and the peristaltic pump. The filter was connected to the pump discharge tubing and 2 liters of water were pumped from the well through the filter to trap microorganisms. The sample was labeled as described above, immediately placed into a cooler containing ice or ice substitute, and submitted to Microbial Insights, Inc. (MI) in Knoxville, Tennessee, in strict accordance with the industry standard chain of custody protocol.

The sample was analyzed for *Dehalococcoides* (DHC) dechlorinating bacteria and for the dehalogenase genes BAV1 Vinyl Chloride Reductase (BVC), *tceA* Reductase (TCE), and Vinyl Chloride Reductase (VCR). DHC (6.30 cells per milliliter [cells/ml]) were detected in the sample. According to MI's website, a DHC concentration of 10,000 cells/mL is considered a screening criterion to identify sites where biological reductive dechlorination is predicted to proceed at "generally useful" rates. The remaining results were below the laboratory MRLs. A summary table of results is provided in Table 2C. A copy of the MI laboratory report is provided in Appendix E.

Following the collection of the groundwater samples from MW-2, a remedial treatment pilot study was initiated at the well utilizing an enhanced reductive dechlorination (ERD) biostimulation product, TerraStryke Products LLC (TerraStryke) ERDenhanced™. Terracon installed a string of four 5-foot long ERDenhanced™ Passive Release Sock (PRS) units into the well. The PRS units were installed below the groundwater table and attached to the well J-plug cap using zip ties and a nylon rope.

On April 5, 2018, Terracon removed the PRS units from MW-2 and collected a groundwater sample from the well. Measured depth to groundwater in monitoring well MW-2 on April 5, 2018, was 12.95 feet below TOC (Table 2A). Based on the measured depth to groundwater and estimated well TOC elevation, the groundwater elevation at MW-2 was 430.65 feet amsl on April 5, 2018.

Prior to groundwater sample collection, MW-2 was purged with a peristaltic pump using a low-flow method. During the purging process, groundwater quality parameters, including temperature, EC, pH, turbidity, DO, and ORP, were measured at regular intervals using a water quality meter. Purging was considered complete when three consecutive readings for EC, pH, temperature, turbidity, DO, and ORP were observed within 10 percent of one another. The water quality meter was calibrated in accordance with the manufacturer's specification prior to use. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented in the field.

Once purging was complete, a groundwater sample was collected for laboratory analysis. During the collection of the groundwater sample, the pump discharge was maintained at the same flow rate as used for low-flow purging. Each sample container was labeled with the project number, date, time, well number, and sample number. The sample was immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The MW-2 groundwater sample was analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

The sample contained PCE (11,000 µg/L), TCE (340 µg/L), cis-DCE (430 µg/L), and VC (38 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B screening levels (Table 2A). The remaining groundwater sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels. Following the sampling event, a string of four new ERDenhanced™ PRS units were installed in MW-2.

4.2.3 2018 Interim Remedial Action

The former Building C concrete slab was removed in May 2018. Based on the 2015 and 2017 soil boring sample data, soil identified with PCE impacts exceeding the MTCA Method A screening level within the former Building C

footprint was excavated and treated between May 10 and 14, 2018. A minor amount of groundwater accumulated in the bottom of the excavation. The final extents of the excavation measured approximately 70 feet north to south by 33 feet east to west and 9 feet deep. The excavated soil (approximately 770 cubic yards) was stockpiled on the northern portion of the former Building C concrete pad. Soil sample locations where soil was excavated and treated are referred to as "Removed" in Table 1, whereas soil sample locations that were not excavated are referred to as "In Place." Photographs are included in Appendix F.

On May 10, 2018, Terracon collected five soil samples (SP-1 through SP-5) from the stockpile and 10 soil samples (ESW-N-4, ESW-NE-5, ESW-E-3, ESW-S-4, ESW-SW-3, ESW-W-6, ESW-NW-2, BOT-W-8, BOT-N-8, and BOT-E-8) from the excavation sidewalls and bottom at depths ranging from approximately 2 to 9 feet bgs (Figure 4; Note that Terracon estimated the depth of the excavation at 8 feet bgs but the excavation contractor survey data indicate that the bottom of the excavation was at 9 feet bgs). Each sample container was labeled with the project number, date, time, sample location/sample depth, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

Samples SP-1 through SP-5 contained PCE (0.62 to 4.3 mg/kg) at concentrations exceeding the MTCA Method A screening level (Table 1). The average PCE soil concentration was 2.3 mg/kg and the median concentration was 2.1 mg/kg. Soil samples ESW-N-4, ESW-NE-5, ESW-W-6, ESW-NW-2, BOT-W-8, BOT-N-8, and BOT-E-8, collected from the excavation sidewalls and bottom at depths ranging from approximately 2 to 9 feet bgs, contained PCE (0.4 to 22 mg/kg) at concentrations exceeding the MTCA Method A screening level. The remaining soil sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

Prior to the backfilling the remedial excavation, the contractor installed five horizontal 4-inch-diameter Schedule 40 PVC slotted pipe runs 25 to 45 feet long and spaced approximately 10 to 15 feet apart in the bottom of the excavation (approximately 9 feet bgs). The pipe runs were oriented southwest to northeast and stubbed to the surface using blank 4-inch Schedule 40 PVC pipe equipped with 45-degree elbows. The stub up and the distal end of each pipe run were capped with PVC slip caps. Each horizontal slotted pipe run was bedded in washed drain rock and covered with filter fabric. The pipe runs were stubbed to the ground surface on the west (alleyway) side of the excavation (Figure 4).

Following the installation of the horizontal slotted pipe runs, the contractor backfilled the excavation in approximately 3-foot lifts using the stockpiled soil. Approximately 2,000 pounds of PeroxyChem Klozur® SP sodium persulfate treatment compound were placed on the bottom of the excavation and the surface of each soil lift. The Klozur® SP was mixed into the soil lifts using a hydraulic auger head mounted on a small excavator. Approximately 465 gallons of a 25% sodium hydroxide (NaOH) solution were added as a sodium persulfate actuator to each treated zone using a garden hose. The NaOH-treated soil lifts were then mixed using the auger head to distribute the NaOH-actuated Klozur® SP treatment mixture throughout the soil. A total of approximately 8,265 pounds of Klozur® SP and 21,600 pounds (approximately 2,010 gallons) of 25% NaOH were mixed into the soil excavated from the former Building C impacted area. The excavated area was subsequently covered with straw and surrounded by straw wattles to prevent soil erosion and runoff.

Based on the 2015 and 2017 soil boring sample data, soil identified with PCE impacts exceeding MTCA Method A screening levels within the alleyway west of former Building C was excavated in August 2018 to a depth of approximately 8 feet bgs. The excavation was not advanced below approximately 8 feet bgs or west of the shallow storm drain line due to the presence of multiple underground utilities. Some groundwater accumulated in the bottom of the excavation. The final extents of the excavation measured approximately 60 feet north to south by 8 feet east to west and 8 feet deep. The excavated soil (approximately 140 cubic yards) was stockpiled on the former Building C concrete pad. GHD understands that confirmation soil samples were not collected from the alleyway remedial excavation or associated soil stockpile.

Prior to backfilling the alleyway area remedial excavation, the excavation contractor installed four short (6-foot long) horizontal 4-inch-diameter Schedule 40 PVC slotted pipe runs spaced approximately 10 to 15 feet apart in the bottom of the excavation (approximately 8 feet bgs). The pipe runs were oriented southwest to northeast and stubbed to the surface using blank 4-inch Schedule 40 PVC pipe equipped with 45-degree elbows. The stub up and the distal end of

each pipe run were capped with PVC slip caps. Each horizontal slotted pipe run was bedded in washed drain rock and covered with filter fabric. The pipe runs were stubbed to the ground surface on the east side of the excavation, in proximity to the former Building C remedial excavation horizontal pipe run stub-ups. Photographs are included in Appendix F.

Following the installation of the horizontal slotted pipe runs, the contractor backfilled the excavation in approximately 3-foot lifts using the stockpiled soil. Approximately 345 pounds of Klozur® SP were placed on the surface of each soil lift and mixed into the soil using the hydraulic auger head. Approximately 77 gallons of a 25% NaOH solution was added to each treated soil lift and mixed into the soil using the auger head. A total of approximately 1,377 pounds of Klozur® SP and 2,700 pounds (approximately 250 gallons) of 25% NaOH were mixed into the soil excavated from the alleyway impacted area. The alleyway was subsequently repaved with asphalt.

4.2.4 2018 Groundwater Monitoring Well Installations and Sampling

On November 15 and 16, 2018, GHD observed the advancement of four soil borings (MW-6A, MW-6B, MW-7A, and MW-7B) to depths ranging from approximately 15 to 35.5 feet bgs using an HSA drilling rig. Borings MW-6A and MW-6B were advanced in the former Building C footprint north (upgradient) of the former Cascade Cleaners tenant space, and borings MW-7A and MW-7B were advanced in the alleyway southeast (downgradient) of the former Building C footprint and existing groundwater monitoring well MW-2. Soils encountered in the borings consisted of tan to gray, dense to very dense, silty sand to the bottom of the borings. Groundwater was encountered in the MW-7B boring at approximately 30 feet bgs. Soil samples collected from the borings were field screened for VOCs using a PID. PID readings ranged from 1.2 to 43.9 ppm in the soil samples collected from boring MW-7B at depths ranging from approximately 10 to 35 feet bgs. The highest PID readings (43.9 and 15 ppm) were detected in the MW-7B samples collected at 30 and 35 feet bgs, respectively. The boring logs are included in Appendix D. Soil cuttings from the borings were placed into 8 properly-labeled US Department of Transportation (DOT) approved 55-gallon steel drums and stored on the Property.

Prior to drilling, Washington State One Call Utility Notification Service was called to alert the utility companies in the area of the scheduled work and to request identification of all underground utilities in the vicinity of the disturbance area. A private utility locating contractor was retained to mark private utilities and to verify the absence of underground utilities near each of the proposed boring locations. GHD also prepared a Site-specific Health and Safety Plan (HASP) in accordance with federal regulations (Title 40, Code of Federal Regulations [CFR], Section 1910.120). The HASP identified potential physical and chemical hazards associated with the field activities and outlined safe work practices.

Two to three soil samples collected from borings MW-6B and MW-7B at depths ranging from approximately 10 to 30 feet bgs were submitted for laboratory analysis. Soil samples were not collected from borings MW-6A and MW-7A for field screening or chemical analysis because borings MW-6B and MW-7B were directly adjacent. Each sample container was labeled with the project number, date, time, boring number, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

The soil samples collected from boring MW-7B at 25 and 30 feet bgs contained PCE (7.4 and 5.8 mg/kg, respectively) and/or TCE (0.14 mg/kg) at concentrations exceeding the MTCA Method A screening levels (Table 1). The remaining soil sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

Borings MW-6A & B and MW-7A & B were completed as groundwater monitoring wells with 2-inch diameter Schedule 40 PVC well casing and well screens with 0.020-inch machine-cut slots. Wells MW-6A and MW-7A were advanced to approximately 15 feet bgs and screened from approximately 5 to 15 feet bgs. MW-6B and MW-7B were advanced to approximately 35 feet bgs and screened from approximately 24.5 to 34.5 feet bgs. Wells MW-6A and MW-7A were screened in the shallow water-bearing zone and wells MW-6B and MW-7B were screened in the intermediate water-bearing zone. The TOC elevations at wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B were

surveyed by GHD on November 16, 2018, relative to the west rim of Soos Creek Water and Sewer District sanitary sewer Manhole 144-4, located in the pavement northeast of former Building C.

The ERDenhanced™ PRS units installed in MW-2 on April 5, 2018, were removed from the well on November 15, 2018. Pieces of the PRS cloth sleeves detached from the nylon suspension rope during the removal process. Well MW-2 was re-developed on November 15, 2018, using surge and bail and surge and pump techniques. Approximately 7 gallons of purge water were removed from the well and placed into a properly-labeled DOT-approved 55-gallon steel drum and stored on the Property. Wells MW-6A & B and MW-7A & B were developed by GHD on November 21, 2018, using surge and bail and surge and pump techniques. Approximately 13 gallons were purged from MW-6A, 5 gallons were purged from MW-6B, 7 gallons were purged from MW-7A, and 9 gallons were purged from MW-7B. Well purge water was light brown to gray and typically cleared up after 3 to 4 gallons were purged. Wells MW-6B and MW-7A pumped dry during well development. The well development purge water was placed into a properly-labeled DOT-approved 55-gallon steel drum and stored on the Property.

GHD contracted with Blaine Tech Services, Inc. (BTS) of Auburn, Washington, to sample monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B. BTS sampled the wells on December 3, 2018, using BTS's Standard Operating Procedures for Low Flow Groundwater Monitoring. Measured depth to groundwater in monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B on December 3, 2018, ranged from 2.20 feet below TOC at MW-6A to 64.46 feet below TOC at MW-1 (Table 2A). The TOC elevation and measured depth to groundwater at wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B were used to calculate the groundwater elevation at each well. Groundwater elevations ranged from 442.40 feet amsl at MW-6A to 379.29 feet amsl at MW-1. Based on the groundwater elevation at wells MW-5, MW-6A, and MW-7A, the shallow groundwater gradient was toward the southeast at a horizontal gradient of approximately 0.045 feet per foot (ft/ft). Based on the groundwater elevation at wells MW-2, MW-3, MW-6B, and MW-7B, the intermediate groundwater gradient was toward the southeast at a horizontal gradient of approximately 0.05 ft/ft. Groundwater contour maps for the shallow and intermediate zones for December 3, 2018, are included as Figures 8a and 8b, respectively.

Prior to groundwater sample collection, the wells were purged with a peristaltic pump using a low-flow method. During the purging process, groundwater quality parameters, including temperature, EC, pH, turbidity, DO, and ORP, were measured at regular intervals using a water quality meter. Purging was considered complete when three consecutive readings for EC, pH, temperature, turbidity, DO, and ORP were observed within 10 percent of one another. The water quality meter was calibrated in accordance with the manufacturer's specification prior to use. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented by BTS in the field.

Once purging was complete, groundwater samples were collected from monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B for laboratory analysis. During the collection of the groundwater samples, the pump discharge was maintained at the same flow rate as used for low-flow purging. Each sample container was labeled with the project number, date, time, well number, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The groundwater samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

The groundwater samples collected from monitoring wells MW-2, MW-7A, and MW-7B contained PCE (2,300 to 13,000 µg/L), TCE (110 to 400 µg/L), cis-DCE (190 to 860 µg/L), and VC (14 to 180 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B screening levels (Table 2A). The remaining groundwater sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

Two sub-slab Vapor Pins™ (SSG-1 and SSG-2) were installed in the northwest corner of Building B and the northeast corner of Building D, respectively, on November 15, 2018 (Figure 4). A 3/8-inch diameter hole was drilled through the concrete slab and a Vapor Pin™, consisting of a brass stem with a silicon rubber sleeve, was installed in the borehole in each location. The Vapor Pin™ was completed with a flush cap and left in place for future sampling.

GHD collected soil vapor samples from SSG-1 and SSG-2 on November 15, 2018. A section of Teflon tubing was connected to the Vapor Pin™ at the top of the concrete floor and the Vapor Pin™ and tubing were purged of three air volumes using a syringe. After purging, the sample tubing was connected to a vacuum box equipped with a laboratory-supplied tedlar bag and an air sampling pump. The pump was operated at a low pumping rate until the

tedlar bag in the vacuum box was observed to be fully inflated. Once the sample was collected, the tedlar bag was removed from the vacuum box, the tedlar bag fill valve was closed, and the sample tubing was removed from the top of the Vapor Pin™. The Vapor Pin™ was then capped.

The tedlar bags were labeled with the project number, date, time, sampling location, and sample number. The samples were delivered to ALS in strict accordance with the industry standard chain of custody protocol. The soil vapor samples were analyzed for select VOCs (PCE, TCE, cis-DCE, trans-DCE, and VC) via EPA Method 8260. All results were below the laboratory MRLs.

4.2.5 2019 Groundwater Monitoring Well Sampling

In May 2019, GHD contracted BTS to perform groundwater monitoring and sampling at the Site. Measured depth to groundwater in monitoring wells MW-2, MW-3, MW-5, MW-6A & B, MW-7A & B, and the former Building C middle horizontal treatment pipe TW-3A (sample Excav Pipe) on May 2, 2019, ranged from 3.73 feet below TOC at MW-5 to 15.08 feet below TOC at MW-7B. Well MW-1 was not sounded in May 2019. The TOC elevation and measured depth to groundwater at wells MW-2, MW-3, MW-5, MW-6A & B, and MW-7A & B were used to calculate the groundwater elevation at each well. Groundwater elevations ranged from 441.13 feet amsl at MW-5 to 428.28 feet amsl at MW-7B. Based on the groundwater elevation at wells MW-5, MW-6A, and MW-7A, the shallow groundwater gradient was toward the southwest at a horizontal gradient of approximately 0.05 ft/ft. Based on the groundwater elevation at wells MW-2, MW-3, MW-6B, and MW-7B, the intermediate groundwater gradient was toward the southeast at a horizontal gradient of approximately 0.048 ft/ft. Groundwater contour maps for the shallow and intermediate zones for May 2, 2019, are included as Figures 9a and 9b, respectively.

Prior to groundwater sample collection, the wells were purged with a peristaltic pump using a low flow method. During the purging process, groundwater quality parameters, including temperature, EC, pH, turbidity, DO, and ORP, were measured at regular intervals using a water quality meter. Purging was considered complete when three consecutive readings for EC, pH, temperature, turbidity, DO, and ORP were observed within 10 percent of one another. The water quality meter was calibrated in accordance with the manufacturer's specification prior to use. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented by BTS in the field.

Once purging was complete, groundwater samples were collected from monitoring wells MW-2, MW-7A, and MW-7B and Excav Pipe for laboratory analysis. During the collection of the groundwater samples, the pump discharge was maintained at the same flow rate as used for low flow purging. Each sample container was labeled with the project number, date, time, well number/sample location, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS, in strict accordance with the industry standard chain of custody protocol. The groundwater samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

The groundwater samples collected from MW-2, MW-7A, MW-7B, and TW-3A (Excav Pipe) contained PCE (1,400 to 23,000 µg/L), TCE (68 to 3,700 µg/L), cis-DCE (69 to 1,000 µg/L), and VC (0.46 to 210 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B screening levels (Table 2A). The remaining groundwater sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

4.2.6 2019 and 2020 Additional Interim Remedial Action

GHD observed groundwater treatment injections into the former Building C and alleyway horizontal slotted pipe runs (TW-1A through TW-4A, TW-5, and TW-1B through TW-4B) between November 20 and 22, 2019. GHD updated our Site-specific HASP in accordance with CFR Section 1910.120. The HASP identified potential physical and chemical hazards associated with the field activities and outlined safe work practices.

The measured depth to groundwater in TW-4A on November 20, 2019, prior to injections was 4.35 feet bgs. Approximately 1,595 pounds of Klozur® SP sodium persulfate remedial treatment compound mixed with 241 gallons of potable water and 247 gallons (2,638 pounds) of 25% NaOH activator were injected into the nine horizontal slotted treatment pipe runs in 21 batches of 20 to 30 gallons each. Injections 1 through 20 were completed on November 20

and 21, 2019. Measured depth to groundwater in the treatment pipes on November 22, 2019, prior to injection 21 ranged from approximately 2.2 to 4.4 feet bgs.

Following the completion of the injections, a shallow L-shaped trench was excavated along the west side of TW-3B and TW-4B on November 23, 2019 (Figure 4). The trench measured approximately 45 feet long, 1.5 feet wide, and 2 feet deep. Approximately 496 pounds of Klozur® SP and 1,725 pounds (161 gallons) of 25% NaOH were placed into the trench and mixed into the soil. Soil excavated from the trench was placed back into the trench and compacted following the remedial treatment application.

On January 27, 2020, a second shallow trench was completed on the east side of TW-3A and TW-4A (Figure 4). The trench measured approximately 30 feet long, 1.5 feet wide, and 2 feet deep. Approximately 551 pounds of Klozur® SP and 1,380 pounds (129 gallons) of 25% NaOH were placed into the trench and mixed into the soil. Soil excavated from the trench was placed back into the trench and compacted following the remedial treatment application. Photographs of the trench excavations are included in Appendix E.

4.2.7 2020 Groundwater Monitoring Well Installations and Sampling

On August 17, 2020, GHD observed the advancement of two soil borings (MW-8A and MW-8B) to depths of approximately 15 and 36.5 feet bgs, respectively, in the alleyway south (downgradient) of existing groundwater monitoring wells MW-7A and MW-7B. Soils encountered in the borings consisted of gray to brown, dense to very dense, silty sand to approximately 35 feet bgs, underlain by gray silt to the bottom of boring MW-8B. Groundwater was encountered in the MW-8B boring at approximately 16 feet bgs. Soil samples collected from boring MW-8B were field screened for VOCs using a PID. PID readings ranged from 5.3 to 71.2 ppm in the soil samples collected from boring MW-8B at depths ranging from approximately 5 to 35 feet bgs. The highest PID readings (12 and 71.2 ppm) were detected in the MW-8B samples collected at depths of approximately 5 and 15 feet bgs, respectively. The boring logs are included in Appendix D. Soil cuttings from the borings were placed in 3 properly-labeled DOT-approved 55-gallon steel drums and stored on the Property.

Prior to drilling, Washington State One Call Utility Notification Service was called to alert the utility companies in the area of the scheduled work and to request identification of all underground utilities in the vicinity of the disturbance area. A private utility locating contractor was retained to mark private utilities and to verify the absence of underground utilities near each of the proposed boring locations. GHD also updated our Site-specific HASP in accordance with CFR Section 1910.120. The HASP identified potential physical and chemical hazards associated with the field activities and outlined safe work practices.

Based on PID readings, five soil samples collected from boring MW-8B at depths ranging from approximately 5 to 35 feet bgs were submitted for laboratory analysis. Soil samples were not collected from boring MW-8A for field screening or chemical analysis because boring MW-8B was directly adjacent. Each sample container was labeled with the project number, date, time, boring number, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E. Soil sample results were below the laboratory MRLs (Table 1).

Borings MW-8A & B were completed as groundwater monitoring wells with 2-inch diameter Schedule 40 PVC well casing and well screens with 0.010-inch machine-cut slots. Well MW-8A was completed to approximately 15 feet bgs and screened in the shallow water-bearing zone from approximately 5 to 15 feet bgs. MW-8B was completed to approximately 35 feet bgs and screened in the intermediate water-bearing zone from approximately 25 to 35 feet bgs. The TOC elevations at wells MW-8A and MW-8B were surveyed by GHD on August 17, 2020, relative to the TOC elevations at wells MW-7A and MW-7B.

Well MW-8B was developed on August 17, 2020, using surge and bail and surge and pump techniques. Well MW-8B pumped dry during well development. Well MW-8A was dry after well installation and was not developed. Approximately 30 gallons of purge water were removed from well MW-8B and placed in a properly-labeled DOT-approved 55-gallon steel drum and stored on the Property.

In August 2019, GHD contracted BTS to perform groundwater monitoring and sampling at the Site. Measured depth to groundwater in monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, MW-7A & B, MW-8A & B, and horizontal treatment pipe TW-3A (sample Excav Pipe) on August 31, 2020, ranged from 3.73 feet below TOC at MW-5 to 63.79 feet below TOC at MW-1. The TOC elevation and measured depth to groundwater at wells MW-1 through MW-3, MW-5, MW-6A & B, MW-7A & B, and MW-8A & B were used to calculate the groundwater elevation at each well. Groundwater elevations ranged from 439.88 feet amsl at MW-6A to 380.17 feet amsl at MW-1. Based on the groundwater elevation at wells MW-5, MW-6A, MW-7A, and MW-8A, the shallow groundwater gradient was toward the southwest at a horizontal gradient of approximately 0.11 ft/ft. Based on the groundwater elevation at wells MW-2, MW-3, MW-6B, MW-7B, and MW-8B, the intermediate groundwater gradient was toward the southeast and south at horizontal gradients of approximately 0.07 to 0.048 ft/ft. Groundwater contour maps for the shallow and intermediate zones for August 31, 2020, are included as Figures 10a and 10b, respectively.

Prior to groundwater sample collection, the wells were purged with a peristaltic pump using a low-flow method. During the purging process, groundwater quality parameters, including temperature, EC, pH, turbidity, DO, and ORP, were measured at regular intervals using a water quality meter. Purging was considered complete when three consecutive readings for EC, pH, temperature, turbidity, DO, and ORP were observed within 10 percent of one another. The water quality meter was calibrated in accordance with the manufacturer's specification prior to use. The groundwater parameters measured during purging, flow rates, and instrument calibrations were documented by BTS in the field.

Once purging was complete, groundwater samples were collected from monitoring wells MW-2, MW-7A, MW-7B, MW-8A, MW-8B, and treatment pipe TW-3A (Excav Pipe) for laboratory analysis. During the collection of the groundwater samples, the pump discharge was maintained at the same flow rate as used for low flow purging. Each sample container was labeled with the project number, date, time, well number/sample location, and sample number. The samples were immediately placed into a cooler containing ice or ice substitute and delivered to ALS in strict accordance with the industry standard chain of custody protocol. The groundwater samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. A copy of the laboratory analytical report is included in Appendix E.

The groundwater samples collected from MW-2, MW-7A, MW-7B, MW-8A, and TW-3A (Excav Pipe) contained PCE (29 to 16,000 µg/L), TCE (19 to 14,000 µg/L), cis-DCE (79 to 1,000 µg/L), and VC (0.59 to 150 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B screening levels (Table 2A). The remaining groundwater sample results were below the laboratory MRLs or below the MTCA Method A or MTCA Method B screening levels.

BTS, under contract to GHD, collected soil vapor samples from sub-slab Vapor Pins™ SSG-1 and SSG-2 on September 1, 2020. A section of Teflon tubing was connected to the Vapor Pin™ at the top of the concrete floor and the Vapor Pin™ and tubing were purged of three air volumes using a syringe. After purging, the sample tubing was connected to a vacuum box equipped with a laboratory-supplied tedlar bag and an air sampling pump. The pump was operated at a low pumping rate until the tedlar bag in the vacuum box was observed to be fully inflated. Once the sample was collected, the tedlar bag was removed from the vacuum box, the tedlar bag fill valve was closed, and the sample tubing was removed from the top of the Vapor Pin™. Each Vapor Pin™ was then capped.

The tedlar bags were labeled with the project number, date, time, sampling location, and sample number. The samples were delivered to ALS in strict accordance with the industry standard chain of custody protocol. The soil vapor samples were analyzed for halogenated VOCs, including PCE, TCE, cis-DCE, trans-DCE, and VC, via EPA Method 8260. PCE (330 µg/m³) was detected in sample SSG-1 collected from Building B at a concentration slightly exceeding the MTCA Method B screening level of 320 µg/m³ for cancer risk (Table 3). Methylene chloride (950 and 570 µg/m³) were detected in samples SSG-1 and SSG-2, respectively, at concentrations below the MTCA Method B screening level for cancer risk (2,200 µg/m³). The remaining sub-slab soil vapor sample results were below the laboratory MRLs'

4.2.8 2021 Site Assessment

In September 2021, GeoEngineers completed a Phase I ESA of the Property on behalf of Impact Public Schools. In September 2021, GeoEngineers advanced six soil borings (GEI-1 through GEI-6) in the alleyway north of Building A

and downgradient from the former Cascade Cleaner tenant space to depths ranging from approximately 10 to 15 feet bgs. Groundwater was reportedly not encountered in the borings. Soil samples collected from the borings at depths ranging from approximately 3 to 15 feet bgs were analyzed for halogenated VOCs (PCE, TCE, cis-DCE, trans-DCE, DCE, and VC) by EPA Method 8260D, total petroleum hydrocarbons (TPH) in the gasoline range (TPHg) by Northwest Method NWTPH-Gx, TPH in the diesel range (TPHd) and oil range (TPHo) by Northwest Method NWTPH-Dx, and Resource Conservation and Recovery Act (RCRA) 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6020B. Three sub-slab soil vapor samples (SV-1 through SV-3) were collected from the northern portion of Building A. The sub-slab soil vapor samples were collected in Summa canisters and analyzed for halogenated VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method TO-15, and for helium tracer gas by American Society of Testing and Materials (ASTM) Method D1946. Helium was not detected in the samples. Detected concentrations in soil and soil vapor samples were below the MTCA Method A or MTCA Method B screening levels. A Site figure and summary tables from GeoEngineer's *Focused Phase II Environmental Assessment* report dated November 10, 2021, are included in Appendix G.

4.3 Soil

Table 1 summarizes soil analytical data for the Site. A total of 69 soil samples have been collected at the Site for laboratory analysis. Soil samples were collected from soil and well installation borings in 2015, soil borings in 2017, a remedial excavation and well installation soil borings in 2018, and a well installation boring in 2020. Sample depths ranged from approximately 2 to 45 feet bgs. The majority of soil sampling has been conducted in the vicinity of the former dry cleaner and downgradient (southeast) of the former dry cleaner. Soil sampling has also been conducted north, east, south, and west of the former dry cleaner. The approximate soil sample locations and areas of the Site that contain PCE soil sample results exceeding the MTCA Method A screening level are shown on Figure 7.

Based on historical soil sampling results, soil impacts exceeding MTCA Method A or MTCA Method B screening levels have been delineated horizontally to the north (MW-6B and B5), east (B1 and ESW-E-3), south (EB-7 and MW-8B), and west (MW-1) and are confined to the vicinity of the former Building C dry cleaner tenant space area, a portion of the alleyway west of former Building C, and the saturated zone downgradient (southeast) of former Building C in the vicinity of monitoring well locations MW-2, MW-7A, and MW-7B. The vertical extent of soil impacts exceeding MTCA Method A or MTCA Method B screening levels in the former dry cleaner area have not been fully delineated.

4.4 Groundwater

Table 2A summarizes historical groundwater analytical results for Site monitoring well samples. Shallow and intermediate zone groundwater contour maps for December 2018, May 2019, and August 2020 sampling events are presented in Figures 8a through 10a and 8b through 10b, respectively. Rose Diagrams depicting groundwater flow directions in the shallow and intermediate zone since 2018 are presented on Figures 10a and 10b, respectively.

Historically, groundwater samples collected from horizontal treatment pipe TW-3A (Excav Pipe) and monitoring wells MW-2, MW-7A, MW-7B, MW-8A, and MW-8B have contained halogenated VOCs (PCE, TCE, trans-DCE, and/or VC) that exceeded the MTCA Method A or MTCA Method B screening levels. Upgradient wells MW-6A and MW-6B and cross-gradient wells MW-1, MW-3, and MW-5 have not contained halogenated VOCs at concentrations exceeding the laboratory MRLs. Shallow and intermediate zone groundwater chemical concentration maps are included as Figures 11a and 11b, respectively.

Based on historical groundwater sampling data, shallow and intermediate zone groundwater impacts exceeding MTCA Method A or MTCA Method B screening levels have been fully delineated horizontally to the north (MW-6A & B) and east (MW-3 and MW-5)... The horizontal extent of shallow and intermediate zone groundwater impacts exceeding MTCA Method A or MTCA Method B screening levels has not been fully delineated to the west and south. The vertical extent of groundwater impacts exceeding MTCA Method A or MTCA Method B screening levels in the former dry cleaner area have not been fully delineated.

4.5 Surface Water

Based on the distance to the nearest surface water bodies, no investigation of surface water associated with this release is necessary.

4.6 Sediment

No indication of surface water impact has been identified in association with the Site; therefore, no sediment sampling is warranted.

4.7 Soil Vapor

Two sub-slab Vapor Pins™ (SSG-1 and SSG-2) have been installed at the Site, one beneath Building B adjacent to former Building C and one beneath Building E across the alleyway from former Building C. Soil vapor sampling events were completed in November 2018 and September 2020. Halogenated VOCs were not detected above the laboratory MRLs in the soil vapor samples collected from beneath either building in November 2018. In September 2020, PCE (330 µg/m³) was detected in the soil vapor sample collected from SSG-1 (beneath Building B) at a concentration slightly exceeding the MTCA Method B sub-slab soil gas screening level of 320 µg/m³ for cancer risk. PCE was not detected in the sample collected from SSG-2 (beneath Building E), and no other halogenated VOCs were detected above the laboratory MRLs in either soil vapor sample. Based on the PCE detection in the SSG-1 sample collected in September 2020, additional soil vapor sampling appears to be warranted.

5. Interim Remedial Actions

As described in detail in Section 4, interim remedial actions completed at the Site include the following:

- Strings of four ERDenhanced™ PRS units were installed in monitoring well MW-2 in January and April 2018. The final PRS units were removed from MW-2 in November 2018.
- Approximately 8,265 pounds of Klozur® SP and 21,600 pounds (2,010 gallons) of 25% NaOH were mixed into the soil excavated from the former Building C impacted area in May 2018.
- Approximately 1,377 pounds of Klozur® SP and 2,700 pounds (250 gallons) of 25% NaOH were mixed into the soil excavated from the alleyway impacted area in August 2018.
- In November 2019, approximately 1,595 pounds of Klozur® SP and 2,638 pounds (247 gallons) of 25% NaOH were injected into horizontal slotted treatment pipe runs TW-1A through TW-4A, TW-5, and TW-1B through TW-4B located in the former Building C and adjacent alleyway remedial treatment excavations.
- Approximately 496 pounds of Klozur® SP and 1,725 pounds (161 gallons) of 25% NaOH were placed into a shallow L-shaped trench excavated at the southwest corner of the former Building C remedial treatment excavation and mixed into the soil in November 2019.
- Approximately 551 pounds of Klozur® SP and 1,380 pounds (129 gallons) of 25% NaOH were placed into a second shallow trench excavated at the southwest corner of the former Building C remedial treatment excavation and mixed into the soil in January 2020.

A total of approximately 12,284 pounds of Klozur® SP and 30,043 pounds (2,800 gallons) of 25% NaOH have been applied at the former Building C and adjacent alleyway at the Site to treat approximately 910 cubic yards of soil impacted by halogenated VOCs (dry cleaning solvents).

6. Preliminary Conceptual Site Model

Dry cleaning solvents (PCE and possibly TCE) were released into soil and groundwater at the former dry cleaning facility sometime prior to 2010. It is not certain when or how the release occurred but based on environmental

investigations the release likely originated in the vicinity of the dry cleaning equipment room and/or dry cleaning product or spent product storage areas. PCE and TCE were initially detected in soil and groundwater samples in 2015.

The Property has been capped by asphalt and buildings since about 1986 and was therefore not exposed to infiltrating surface water until Building C was demolished and the building concrete pad was removed in 2018. Subsurface soils at the Site consist of silty sand with gravel underlain by dense glacial till and are saturated in three water-bearing zones located at depths of approximately 5 feet bgs in the shallow zone, 15 to 20 feet bgs in the intermediate zone, and 65 feet bgs in the deep zone. Shallow and intermediate zone groundwater in the area of the former dry cleaner have come into contact with soil impacted with PCE and TCE.

The Property is supplied with potable water from the Soos Creek Water and Sewer District from Lake Youngs. One single-family residence drinking water supply well is located northeast within approximately 1 mile of the Site. Based on the direction of groundwater flow at the Site towards the southeast, the distance of the water well from the Site (0.8 mile), and the upgradient to cross-gradient location, this well is not a potential receptor.

Storm water from the Site discharges to the City of Renton surface water system southeast of the Property. Based on the depth to groundwater and the distance to the nearest receptor, surface water is not likely to be adversely impacted from the halogenated VOCs release on the Property.

Groundwater sampling results indicate that PCE, TCE, cis-DCE, and/or VC have been detected in monitoring wells completed in the shallow and intermediate zones downgradient of the former dry cleaners at concentrations exceeding the MTCA Method A or MTCA Method B screening levels on one or more occasion between 2015 and 2020.

Commercial businesses currently operate on the Property in Building B. It is anticipated that the commercial use of the Property will continue in the future. A multifamily residential development on the northern (upgradient) portion of the Property in the future is a possibility. Based on the current and likely future use of the Property and adjacent properties, and the distance of onsite buildings to the impacted soil, soil vapor concentrations of halogenated VOCs are a potential risk to human health.

In accordance with MTCA, potential exposure pathways for human and environmental receptors based on the current and planned land use identified during this investigation include the following:

- Human health protection from direct soil contact
- Human health protection from soil to groundwater (drinking water)
- Human health protection from groundwater to drinking water
- Human health protection from soil vapor inhalation
- Human health protection from soil to surface water
- Human health protection from groundwater to surface water
- Terrestrial ecological protection.

Based on historical Site information, the following conclusions can be made:

- The direct soil contact pathway is complete because soil concentrations exceeding MTCA Method A or MTCA Method B screening levels are present within the upper 15 feet of soil on the Site. The majority of the Site, with the exception of the former Building C area, is currently paved or covered with buildings.
- The soil to groundwater pathway for drinking water is complete because soil impacted with halogenated VOCs has come into contact with shallow and intermediate zone groundwater.
- The groundwater to drinking water pathway is complete because shallow and intermediate groundwater is currently classified as a potential future drinking water resource.
- The soil vapor inhalation pathway requires additional evaluation because PCE was detected in SSG-1 at a concentration exceeding the MTCA Method B screening level in 2020.
- The soil to surface water pathway is incomplete because the distance to any surface water bodies is greater than the potential for contaminant migration and soil impacts are confined to the Property.

- The groundwater to surface water pathway is incomplete because the distance to any surface water bodies is greater than the potential for contaminant migration and groundwater impacts are confined to the Property.
- The terrestrial ecological pathway is incomplete based on the lack of undeveloped land surrounding the Property, as documented in the TEE exemption included in Appendix C.

Based on the information provided, the potential exposure pathways are limited to soil direct contact, soil leaching to groundwater for protection of drinking water, and groundwater to drinking water. Data collected from temporary shallow soil vapor probes installed in the former dry cleaner tenant space in 2015 and sub-slab Vapor Pins™ installed in adjacent buildings in 2018 indicate that vapor intrusion requires further assessment.

7. Preliminary Cleanup Levels

7.1 Soil Cleanup Levels

MTCA Method A or MTCA Method B soil cleanup levels are appropriate for the protection of the soil leaching to groundwater for the protection of the drinking water pathway. The point of compliance is the entire Site from ground surface to below groundwater. Soil cleanup levels are presented in Table 1.

7.2 Groundwater Cleanup Levels

At this time, since the drinking water receptor is the most sensitive, cleanup standards will be based on this exposure pathway. Groundwater concentrations will be compared to MTCA Method A or MTCA Method B cleanup levels. The point of compliance for groundwater at this Site is the entire Site. Groundwater cleanup levels are presented in Table 2A.

7.3 Indoor Air Cleanup Levels

Sub-slab soil vapor concentrations will continue to be compared to MTCA Method B screening levels, as presented in Table 3. If exceedances of these screening levels are identified, indoor air sampling may be warranted and detected indoor air concentrations would be compared to MTCA Method B Indoor Air cleanup levels.

8. Remaining Data Gaps

GHD evaluated constituents of potential concern (COPCs) based on the past use of a portion of the Property as a dry cleaning facility and the associated chlorinated compounds (PCE, TCE, cis-DCE, trans-DCE, DCE, and VC) identified at the Site. Soil, groundwater, and sub-slab soil vapor at the Site have been sampled for PCE, TCE, cis-DCE, trans-DCE, DCE, and VC. Based on the results of the environmental activities completed at the Site, PCE and TCE are the constituents of concern (COCs) for soil; PCE, TCE, cis-DCE, and VC are the COCs for groundwater; and PCE, TCE, and trans-DCE are the COCs for soil vapor.

8.1 Soil

Soil impacts have been delineated laterally to the north, east, south, and west of the former dry cleaner halogenated VOCs release at the Site. Soil impacts remain undefined vertically beneath and adjacent to the former dry cleaner tenant space. Figure 7 presents the current soil conditions for PCE concentrations.

8.2 Groundwater

Groundwater impacts in the shallow and intermediate zones have been defined to the north and east of the Site, but remain undefined to the west and south of the Site. Figures 11a and 11b present the historical groundwater conditions in the shallow and intermediate zone, respectively.

8.3 Sub-Slab Soil Vapor

A sub-slab soil vapor sample collected during September 2020 (dry season) from SSG-1 in the Building B concrete floor near the southwest corner of former Building C slightly exceeded the MTCA Method B sub-slab soil screening level. Table 3 summarizes the historical soil vapor sampling results at the Site.

9. Remedial Investigation Work Plan

9.1 Objectives

The following scope of work addresses the data gaps identified through evaluation of the historical activities associated with the release:

- Assess the effectiveness of the soil treatment conducted in the former Building C area excavation
- Further delineate the vertical extents of soil impacts in the former Building C area
- Further delineate groundwater impacts east and west of MW-2
- Further assess potential vapor intrusion into Buildings B and D.

9.2 Health and Safety Plan

GHD will update our Site-specific HASP in accordance with federal regulations (Title 40, CFR, Section 1910.120). The HASP will identify potential physical and chemical hazards associated with the proposed field activities and will outline safe work practices.

9.3 Underground Utility Clearance

Prior to any Site work involving soil disturbance, Washington State One Call Utility Notification Service will be called to alert the utility companies in the area of the scheduled work and to request identification of all underground utilities in the vicinity of the disturbance area. A private utility locating contractor will be retained to mark private utilities and to verify the absence of underground utilities near each of the proposed boring locations.

9.4 Soil Sampling and Logging

Nine soil borings (A through C, MW-9A through 9C, and MW-10A through 10C) will be advanced to further characterize soil at the Site. The borings will be advanced by a Washington State licensed driller using a sonic and/or hollow stem auger drill rig. The locations of the proposed borings are presented on Figure 12.

Borings A through C will be advanced within the former Building C soil excavation and remedial treatment area to depths of approximately 40 feet bgs. The purpose of these borings is to collect samples from the treated soil to assess the remnant impacts following treatment, and to collect samples from beneath the treated area to further delineate the vertical extents of soil impacts. Soil samples will be collected from borings A through C at approximately 2, 5, and 8 feet bgs from the treated soil area, and from approximately 10, 15, 20, 25, 30, 35, and 40 feet bgs below the treated soil zone.

Borings MW-9A, B, & C will be advanced in the southern portion of the former Building C area to depths of 15, 35, and 80 feet bgs, respectively. Borings MW-10A, B, & C will be advanced on the west side of the alleyway south of former Building C to depths of 15, 35, and 80 feet bgs, respectively. Each of the six borings will be completed as a groundwater monitoring well. The purpose of these monitoring wells is to collect additional groundwater samples to further define the lateral extents of groundwater impacts, and to collect groundwater samples from the deep zone to further delineate the vertical extent of groundwater impacts and determine the horizontal groundwater gradient in the deep zone. Soil samples will be collected from borings MW-9C and MW-10C at approximately 5-foot intervals from 5

to 80 feet bgs. Soil samples will not be collected from borings MW-9A, MW-9B, MW-10A, or MW-10B because the borings are in close proximity to borings MW-9C and MW-10C.

The first 5 feet of all borings will be advanced using an air knife and vacuum truck in order to further mitigate contact and damage to potential subsurface utility lines. The borings will then be advanced by a sonic and/or hollow stem auger drill rig to the depths noted above. Once each boring has been advanced and samples collected the boring will be converted to a permanent groundwater monitoring well. Soil will be continuously logged using the modified Unified Soil Classification System by an environmental professional overseen by a Washington State Licensed Geologist. Soil samples will be screened continuously using a PID and for visual staining, sheen, or odor.

A minimum of 10 soil samples will be collected from each boring for laboratory analysis. Soil samples will be labelled with the project number, date, time, boring number, and sample number. Samples will be collected using 5035 sampling kits. The samples will be packed on ice or ice substitute and submitted to a Washington State-licensed analytical laboratory in strict accordance with the industry standard chain of custody protocol. Selected soil samples will be analyzed for halogenated VOCs (PCE, TCE, trans-DCE, cis-DCE, DCE, and VC) by EPA Method 8260.

9.5 Groundwater Monitoring Well Installations, Development, and Surveying

Wells MW-9A through C and MW-10A through C will be constructed with 10 feet of 2-inch diameter Schedule 40 PVC well screen with 0.010-inch slots attached to flush-threaded 2-inch diameter Schedule 40 PVC blank well casing from the top of the screen to the top of the well. The well annulus will be backfilled with a 2/16 Monterey sand filter pack to a minimum of 2 feet above the top of the well screen and sealed with hydrated bentonite chips above the filter pack, followed by 2 feet of cement mix. The surface of each well will be completed with an 8-inch diameter flush-mount, traffic-rated well box set in concrete.

The wells will be developed following installation by pumping and surging with a down hole pump or bailer. Grab samples will be collected and analyzed for turbidity with a calibrated field turbidity meter after each well volume. Well development will be considered complete when turbidity is below 100 nephelometric turbidity units (NTU) or when the well has pumped dry at least twice. The Site groundwater monitoring wells will be surveyed by a Washington-licensed land surveyor. Each well location will be surveyed for position (northing and easting) and vertical elevation relative to state or national reference points.

9.6 Groundwater Monitoring and Sampling

The most recent groundwater monitoring event was conducted at the Site in August 2020. GHD will contract with BTS to gauge and sample the existing and newly-installed Site monitoring wells quarterly for one year. Groundwater samples will be collected from the 16 Site monitoring wells (MW-1 through MW-3, MW-5, MW-6A & B, MW-7A & B, MW-8A & B, MW-9A through C, and MW-10A through C). The wells will be gauged prior to sampling. The measured depth to groundwater and well TOC elevations will be used to establish the horizontal groundwater gradient at the Site in the shallow zone (wells MW-5, MW-6A, MW-7A, MW-8A, MW-9A, and MW-10A), intermediate zone (wells MW-2, MW-3, MW-6B, MW-7B, MW-8B, MW-9B, and MW-10B), and deep zone (wells MW-1, MW-9C, and MW-10C). Standard Operating Procedures for Low Flow Groundwater Monitoring will be followed.

Samples will be labelled with the project number, date, time, well number, and sample number. The samples will be packed on ice or ice substitute and submitted to a Washington State-licensed analytical laboratory in strict accordance with the industry standard chain of custody protocol. Groundwater samples will be analyzed for halogenated VOCs (PCE, TCE, trans-DCE, cis-DCE, DCE, and VC) by EPA Method 8260.

9.7 Sub-Slab Soil Vapor Sampling

GHD will contract with BTS to collect soil vapor samples from existing sub-slab Vapor Pins™ SSG-1 and SSG-2 previously installed within the footprint of Building B (existing commercial tenant structure) and Building D (former bowling alley structure). The soil vapor samples will be collected during the dry season (August or September) using a

closed circuit sample train inside a shroud containing a minimum of 50 percent helium. Soil vapor samples will be collected in 1-Liter summa canister and analyzed for halogenated VOCs (PCE, TCE, trans-DCE, cis-DCE, DCE, and VC) by EPA Method TO-15.

9.8 Investigation Derived Waste (IDW)

IDW will include decontamination fluids, soil cuttings from borings, and purged well water. All IDW will be placed into properly labeled 55-gallon drums and stored on the Property pending analyses. Representative samples of drummed soil and groundwater will be collected and analyzed for VOCs by EPA Method 8260 and Resource Conservation and Recovery Act (RCRA) 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6010.

10. Reporting

Following completion of the above activities and receipt of laboratory analytical data, GHD will prepare a Remedial Investigation Report in accordance with WAC 173-340-350.

11. References

City of Renton. Utility Map, May 15, 2022.

City of Renton. Zoning Map, October 27, 2021.

Schuster, J. Eric, Ashley A. Cabibbo, Joseph F. Schilter, and Ian J. Hubert. Geologic Map of the Tacoma 1:100,000-scale Quadrangle, Washington, Washington Division of Geology and Earth Resources Map Series 2015-03, November 2015.

Soos Creek Water and Sewer District Jurisdiction Plan Annex. December 31, 2020.

Reports listed in Appendix A.

Washington State Department of Ecology. Facility Site Database Search.

Washington State Department of Ecology. Guidance for Evaluating Vapor Intrusion in Washington State, Publication No. 09-09-047 (Draft), November 2021.

Washington State Department of Ecology. Model Toxics Control Act Regulation and Statute, Publication No. 94-06, Revised 2013.

Washington State Department of Ecology. Terrestrial Ecological Evaluation Under the Model Toxics Control Act, Publication No. 19-09-051 (Draft), February 2017.

Washington State Department of Ecology. Washington State Well Log Viewer.

Tables

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

Boring/ Well ID	Sample ID	Sample Date	Sample Depth (feet)	In Place/ Removed	VOCs ¹					
					Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2- Dichloroethylene (cis-DCE)	trans-1,2- Dichloroethylene (trans-DCE)	1,1-Dichloroethylene (DCE)	Vinyl Chloride (VC)
	MTCA Method A Cleanup Level				0.05	0.03	160*	1,600*	4,000*	0.67**
MW-6B	MW-6B-10	11/15/2018	10	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	MW-6B-20	11/15/2018	20	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW-7B	MW-7B-10	11/16/2018	10	In Place	0.020	<0.010	<0.010	<0.010	<0.010	<0.010
	MW-7B-25	11/16/2018	25	In Place	7.4	0.020	0.036	<0.010	<0.010	<0.010
	MW-7B-30	11/16/2018	30	In Place	5.8	0.14	0.099	<0.010	<0.010	<0.010
MW-8B	MW-8B-5'	8/17/2020	5	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	MW-8B-7'	8/17/2020	7	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	MW-8B-20'	8/17/2020	20	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	MW-8B-27'	8/17/2020	27	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	MW-8B-35"	8/17/2020	35	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Terracon Soil Treatment Excavation Samples - May 2018										
North Sidewall	ESW-N-4	5/10/2018	4	In Place	16	0.029	0.016	<0.010	<0.010	<0.010
Northeast Sidewall	ESW-NE-5	5/10/2018	5	In Place	22	0.014	0.011	<0.010	<0.010	<0.010
East Sidewall	ESW-E-3	5/10/2018	3	In Place	<0.01	<0.010	<0.010	<0.010	<0.010	<0.010
South Sidewall	ESW-S-4	5/10/2018	4	In Place	0.048	<0.010	<0.010	<0.010	<0.010	<0.010
Southwest Sidewall	ESW-SW-3	5/10/2018	3	In Place	0.040	<0.010	<0.010	<0.010	<0.010	<0.010
West Sidewall	ESW-W-6	5/10/2018	6	In Place	0.78	<0.010	0.015	<0.010	<0.010	<0.010
Northwest Sidewall	ESW-NW- 2	5/10/2018	2	In Place	0.4	<0.010	<0.010	<0.010	<0.010	<0.010
West Bottom	BOT-W-8	5/10/2018	8	In Place	4.5	<0.010	<0.010	<0.010	<0.010	<0.010
North Bottom	BOT-N-8	5/10/2018	8	In Place	19	0.011	<0.010	<0.010	<0.010	<0.010
East Bottom	BOT-E-8	5/10/2018	8	In Place	18	<0.010	<0.010	<0.010	<0.010	<0.010
Soil Stockpile	SP-1	5/10/2018	--	Removed	2.7	<0.010	0.026	<0.010	<0.010	<0.010
Soil Stockpile	SP-2	5/10/2018	--	Removed	1.8	<0.010	<0.010	<0.010	<0.010	<0.010
Soil Stockpile	SP-3	5/10/2018	--	Removed	0.62	<0.010	<0.010	<0.010	<0.010	<0.010
Soil Stockpile	SP-4	5/10/2018	--	Removed	4.3	<0.010	<0.010	<0.010	<0.010	<0.010
Soil Stockpile	SP-5	5/10/2018	--	Removed	2.1	<0.010	<0.010	<0.010	<0.010	<0.010

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

Boring/ Well ID	Sample ID	Sample Date	Sample Depth (feet)	In Place/ Removed	VOCs ¹					
					Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2- Dichloroethylene (cis-DCE)	trans-1,2- Dichloroethylene (trans-DCE)	1,1-Dichloroethylene (DCE)	Vinyl Chloride (VC)
Terracon Borings - November 2017										
EB-1	EB-1-5	11/1/2017	5	Removed	41	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-1-12	11/1/2017	12	In Place	14	<0.010	<0.010	<0.010	<0.010	<0.010
EB-2	EB-2-9	11/1/2017	9	In Place	32	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-2-14	11/1/2017	14	In Place	97	0.30	<0.010	<0.010	<0.010	<0.010
EB-3	EB-3-5	11/1/2017	5	Removed	3.2	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-3-12	11/1/2017	12	In Place	3.7	<0.010	<0.010	<0.010	<0.010	<0.010
EB-4	EB-4-4.5	11/1/2017	4.5	In Place	0.011	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-4-12	11/1/2017	12	In Place	2.7	<0.010	<0.010	<0.010	<0.010	<0.010
EB-5	EB-5-5	11/1/2017	5	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-5-13	11/1/2017	13	In Place	0.022	<0.010	<0.010	<0.010	<0.010	<0.010
EB-6	EB-6-6	11/1/2017	6	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-6-13	11/1/2017	13	In Place	1.2	<0.010	<0.010	<0.010	<0.010	<0.010
EB-7	EB-7-6	11/1/2017	6	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-7-13	11/1/2017	13	In Place	0.021	<0.010	<0.010	<0.010	<0.010	<0.010
EB-8	EB-8-5	11/1/2017	5	In Place	0.23	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-8-11	11/1/2017	11	In Place	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
EB-9	EB-9-5	11/17/2017	5	Removed	2,500	0.87	0.17	<0.035	<0.035	<0.010
	EB-9-13	11/17/2017	13	In Place	3.6	<0.010	<0.010	<0.010	<0.010	<0.010
EB-10	EB-10-5	11/17/2017	5	Removed	0.91	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-10-12	11/17/2017	12	In Place	0.020	<0.010	<0.010	<0.010	<0.010	<0.010
EB-11	EB-11-5	11/17/2017	5	Removed	4.1	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-11-12	11/17/2017	12	In Place	16	<0.010	<0.010	<0.010	<0.010	<0.010
EB-12	EB-12-5	11/17/2017	5	Removed	8.6	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-12-12	11/17/2017	12	In Place	17	<0.010	<0.010	<0.010	<0.010	<0.010
EB-13	EB-13-5	11/17/2017	5	Removed	16	<0.010	0.014	<0.010	<0.010	<0.010
	EB-13-13	11/17/2017	13	In Place	32	<0.010	<0.010	<0.010	<0.010	<0.010
EB-14	EB-14-5	11/17/2017	5	Removed	3.4	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-14-11	11/17/2017	11	In Place	20	<0.010	<0.010	<0.010	<0.010	<0.010
EB-15	EB-15-5	11/17/2017	5	Removed	31	0.22	0.018	<0.010	<0.010	<0.010
	EB-15-11	11/17/2017	11	In Place	27	<0.010	<0.010	<0.010	<0.010	<0.010
EB-16	EB-16-4	11/17/2017	4	Removed	20	<0.010	<0.010	<0.010	<0.010	<0.010
	EB-16-8	11/17/2017	8	Removed	74	0.018	<0.010	<0.010	<0.010	<0.010
Partner Borings and Monitoring Wells - 2015										
MW-1	MW1-15	11/2/2015	15	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
	MW1-45	11/2/2015	45	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
MW-2	MW2-15	11/3/2015	15	In Place	9.8	0.13	0.12	<0.05	0.13	<0.02
	MW2-25	11/3/2015	25	In Place	4.8	<0.02	<0.05	<0.05	<0.02	<0.02

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

Boring/ Well ID	Sample ID	Sample Date	Sample Depth (feet)	In Place/ Removed	VOCs ¹					Vinyl Chloride (VC)
					Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2- Dichloroethylene (cis-DCE)	trans-1,2- Dichloroethylene (trans-DCE)	1,1-Dichloroethylene (DCE)	
MW-3	MW3-10	11/9/2015	10	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
	MW3-25	11/9/2015	25	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
B1	B1-5	6/19/2015	5	In Place	0.04	<0.02	<0.05	<0.05	<0.02	<0.02
B2	B2-7	6/19/2015	7	Removed	2.5	<0.02	<0.05	<0.05	<0.02	<0.02
B3	B3-5.5	6/19/2015	5.5	Removed	4.2	0.06	<0.05	<0.05	0.06	<0.02
B4	B4-5	9/29/2015	5	In Place	6.7	<0.02	<0.05	<0.05	<0.02	<0.02
	B4-9	9/29/2015	9	In Place	14	0.02	<0.05	<0.05	0.02	<0.02
	B4-12	9/29/2015	12	In Place	78	<0.02	<0.05	<0.05	<0.02	<0.02
B5	B5-5	9/29/2015	5	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
	B5-9	9/29/2015	9	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
	B5-12	9/29/2015	12	In Place	<0.02	<0.02	<0.05	<0.05	<0.02	<0.02
B6	B6-5	9/29/2015	5	In Place	0.06	<0.02	<0.05	<0.05	<0.02	<0.02
	B6-9	9/29/2015	9	In Place	0.19	<0.02	<0.05	<0.05	<0.02	<0.02

Notes:

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

Concentrations detected above MTCA direct contact cleanup levels are in BOLD type.

VOCs - Volatile organic compounds

MTCA - Model Toxics Control Act

Removed - Soil for this sample was excavated, stockpiled, placed back into the excavation, and treated

<x - Not detected above laboratory method reporting limit (MRL) x.

1 - See laboratory report for full list of analytes.

* - MTCA Method B direct contact cleanup level

** - MTCA Method B direct contact cleanup level (cancer)

TABLE 2A
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

VOCs ¹

Boring/ Well ID	Sample ID	Sample Date	Depth to Water (feet below TOC)	TOC Elev (feet)	Ground Water Elev (feet)	VOCs ¹					
						Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-Dichloroethylene (cis-DCE)	trans-1,2- Dichloroethylene (trans-DCE)	1,1-Dichloroethylene (DCE)	Vinyl Chloride (VC)
MTCA Method A Cleanup Level						5	5	16*	160*	400*	0.2
MW-1	MW-1	8/31/2020	63.79	443.96	380.17	--	--	--	--	--	--
	MW-1	5/2/2019	NM	--	--	--	--	--	--	--	--
	MW-1	12/3/2018	64.46	443.96	379.50	<2.0	<2.0	<2.0	<2.0	<2.0	<0.2
	MW-1 ⁺	11/12/2015	64.67	443.96	379.29	2.5	<1.0	<1.0	<1.0	<1.0	<0.2
MW-2	MW-2	8/31/2020	12.62	443.60	430.98	15,000	380	360	<2.0	8.7	25
	MW-2	5/2/2019	12.78	443.60	430.82	16,000	350	330	<2.0	9.0	29
	MW-2	12/3/2018	12.74	443.60	430.86	12,000	240	280	<2.0	7.8	27
	MW-2	4/5/2018	12.95	443.60	430.65	11,000	340	430	<2.0	<2.0	38
	MW-2	1/8/2018	12.76	443.60	430.84	12,000	310	240	<2.0	12	30
	MW-2 ⁺	11/12/2015	13.91	443.60	429.69	6,700	77	22	<1.0	6	12
MW-3	MW-3	8/31/2020	12.50	443.07	430.57	--	--	--	--	--	--
	MW-3	5/2/2019	11.81	443.07	431.26	--	--	--	--	--	--
	MW-3	12/3/2018	12.02	443.07	431.05	4.1	<2.0	<2.0	<2.0	<2.0	<0.2
	MW-3 ⁺	11/12/2015	12.01	443.07	431.06	1.7	<1.0	<1.0	<1.0	<1.0	<0.2
MW-5	MW-5	8/31/2020	6.13	444.86	438.73	--	--	--	--	--	--
	MW-5	5/2/2019	3.73	444.86	441.13	--	--	--	--	--	--
	MW-5	12/3/2018	4.20	444.86	438.73	3.7	<2.0	<2.0	<2.0	<2.0	<0.2
	MW-5	11/12/2015	--	444.86	--	<1.0	<1.0	<1.0	--	<1.0	<0.2
MW-6A	MW-6A	8/31/2020	4.72	444.60	439.88	--	--	--	--	--	--
	MW-6A	5/2/2019	4.08	444.60	440.52	--	--	--	--	--	--
	MW-6A	12/3/2018	2.20	444.60	442.40	<2.0	<2.0	<2.0	<2.0	<2.0	<0.2
MW-6B	MW-6B	8/31/2020	8.51	444.78	436.27	--	--	--	--	--	--
	MW-6B	5/2/2019	10.21	444.78	434.57	--	--	--	--	--	--
	MW-6B	12/3/2018	9.98	444.78	434.80	2.5	<2.0	<2.0	<2.0	<2.0	<0.2
MW-7A	MW-7A	8/31/2020	14.38	443.65	429.27	1,900	110	110	<2.0	<2.0	0.59
	MW-7A	5/2/2019	4.80	443.65	438.85	1,400	68	69	<2.0	<2.0	<0.2
	MW-7A	12/3/2018	4.86	443.65	438.79	2,300	110	190	2.2	<2.0	14
MW-7B	MW-7B	8/31/2020	16.07	443.36	427.29	16,000	540	1,000	5.2	19	150
	MW-7B	5/2/2019	15.08	443.36	428.28	18,000	610	1,000	4.6	24	210
	MW-7B	12/3/2018	19.40	443.36	423.96	13,000	400	860	3.4	24	180
MW-8A	MW-8A	8/31/2020	8.17	441.35	433.18	29	19	79	<2.0	<2.0	2.2
MW-8B	MW-8B	8/31/2020	16.03	441.18	425.15	4.7	<2.0	3.3	<2.0	<2.0	2.6
Excav Pipe	PIPE	8/31/2020	7.10	--	--	7,300	14,000	330	31	<2.0	0.88
	PIPE	5/2/2019	5.08	--	--	23,000	3,700	240	6.2	<2.0	0.46

Notes:

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

Concentrations detected above MTCA cleanup levels are in **BOLD** type.

VOCs - Volatile organic compounds

MTCA - Model Toxics Control Act

<x - Not detected above laboratory method reporting limit (MRL) x.

1 - See laboratory report for full list of analytes.

* - MTCA Method B Cleanup Level

**TABLE 2B
SUMMARY OF GROUNDWATER GENERAL CHEMISTRY RESULTS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington**

MW ID	Sample Date	Ground-water Elevation (feet)	Total Organic Carbon (mg/L)	Sulfate (mg/L)	Methane (mg/L)	Nitrate-Nitrogen (mg/L)	Nitrite (mg/L)	Total Manganese (µg/L)	Dissolved Manganese (µg/L)	Total Iron (µg/L)	Dissolved Iron (µg/L)	Chloride (mg/L)	Alkalinity (mg/L)	BOD (mg/L)
MW-2	1/8/2018	430.84	1.3	16	0.03	ND (<0.15)	ND (<0.14)	130	130	72	ND (<50)	9.1	94	ND (<5)

Notes:

mg/L - milligrams per liter

µg/L - micrograms per lite

<x - Not detected above laboratory method reporting limit (MRL) x.

BOD - biological oxygen demand

TABLE 2C
SUMMARY OF GROUNDWATER MICROBIAL ASSAY RESULTS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

Dechlorinating Bacteria

Monitoring Well ID	Sample Date	Dehalococcoides (DHC)	BAV1 Vinyl Chloride Reductase (BVC)	tceA Reductase (TCE)	Vinyl Chloride Reductase (VCR)
MW-2	1/8/2018	6.30	ND (<0.30)	ND (<0.30)	ND (<0.30)

Notes:

all concentrations are in cells per milliliter (cells/mL)

ND <x - Not detected above laboratory method reporting limit (MRL) x.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DATA
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

Boring/ Well ID	Sample ID	Sample Date	VOCs ¹					Vinyl Chloride (VC)
			Tetrachloroethylene (PCE)	Trichloroethylene (TCE)	cis-1,2-Dichloroethylene (cis-DCE)	trans-1,2- Dichloroethylene (trans-DCE)	1,1-Dichloroethylene (DCE)	
MTCA Sub-Slab Soil Gas Screening Level			320*	11*	NE	610	3,000	9.5*
SSG-1	SSG-1	9/1/2020	330	<200	<200	<200	<200	<20
	SSG-1	11/15/2018	<200	<200	<200	<200	--	<20
SSG-2	SSG-2	9/1/2020	<200	<200	<200	<200	<200	<20
	SSG-2	11/15/2018	<200	<200	<200	<200	--	<20
B1	SG1-4	6/19/2015	<140	<110	<82	<82	<82	<53
B2	SG2-4	6/19/2015	530,000	12,000	26,000	1,400	<440	<280
B3	SG3-4	6/19/2015	19,000	4,900	6,700	150	190	<65

Note:

all concentrations are in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Concentrations detected above the July 2021 Cleanup Level and Risk Calculator (CLARC) sub-slab soil gas screening levels are in **BOLD** type.

VOCs - Volatile organic compounds by EPA Method TO-15 or EPA Method 8260

MTCA - Model Toxics Control Act

<x - Not detected above laboratory reporting limit. X

* - MTCA Method B Cancer Screening Level

NE - MTCA Screening Level not established

-- - Not analyzed

TABLE 4
WELL CONSTRUCTION DETAILS
Cascade Village - Former Cascade Cleaners
16912 116th Ave SE
Renton, King County, Washington

Well ID	Date Installed	TOC	Total Depth (feet bgs)	Casing Diameter (inches)	Screen Interval (feet bgs)
<i>Groundwater Monitoring Wells</i>					
MW-1	11/2/2015	443.96	82	2	67-82
MW-2	11/3/2015	443.60	40	2	25-40
MW-3	11/9/2015	443.07	35	2	20-35
MW-5	5/16/2003	444.86	12.5	2	7-12.5
MW-6A	11/15/2018	444.60	15	2	5-15
MW-6B	11/15/2018	444.78	35	2	25-35
MW-7A	11/15/2018	443.65	15	2	5-15
MW-7B	11/16/2018	443.36	35	2	25-35
MW-8A	8/17/2020	441.35	15	2	5-15
MW-8B	8/17/2020	441.18	35	2	25-35

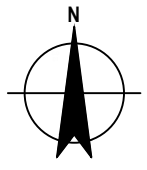
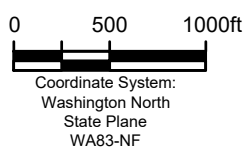
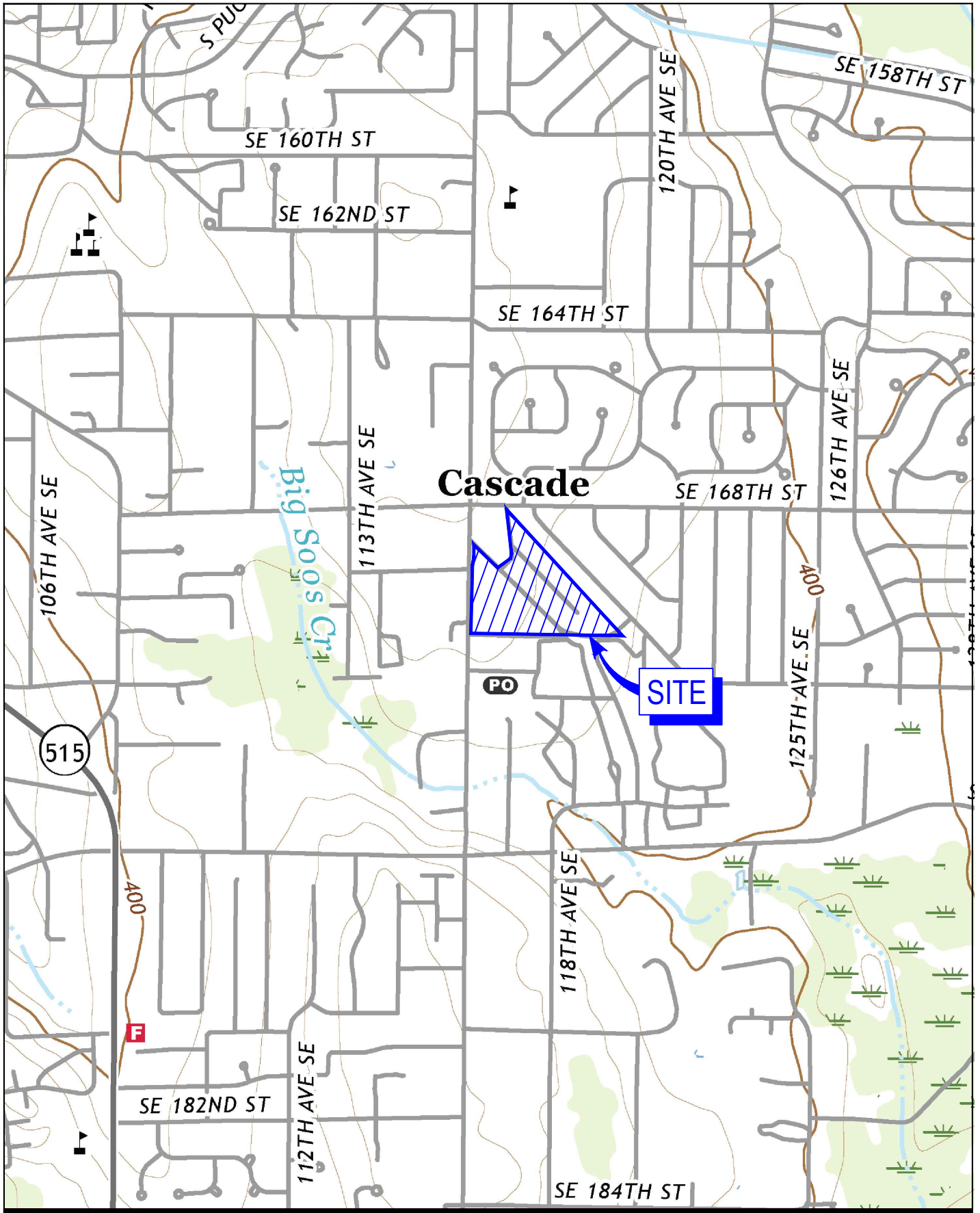
Notes:

feet bgs = feet below ground surface

TOC = Top of casing elevation (feet above mean sea level)

-- = Not measured

Figures

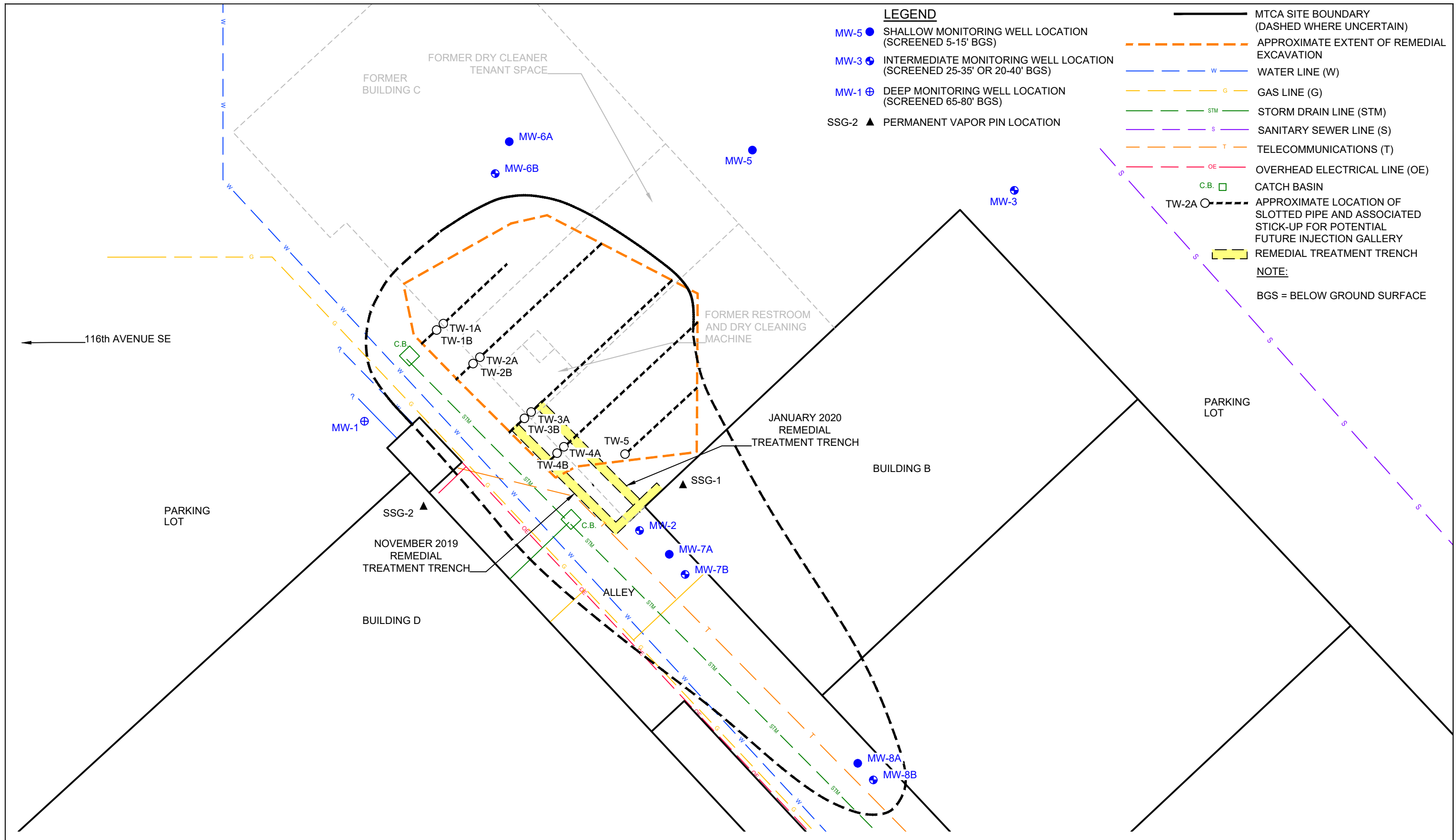


CASCADE VILLAGE - FORMER CASCADE CLEANERS
 16912 116th AVENUE SE
 RENTON, WASHINGTON

Project No. 12561532
 Date September 2021

VICINITY MAP

FIGURE 1

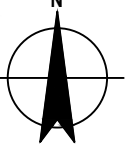
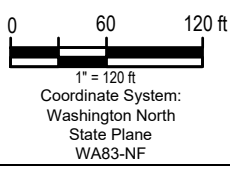


<p>0 10 20ft</p> <p>Coordinate System: Washington North State Plane WA83-NF</p>		<p>CASCADE VILLAGE - FORMER CASCADE CLEANERS 16912 116th AVENUE SE RENTON, WASHINGTON</p>	<p>Project No. 12561532 Date June 2022</p> <p>SITE PLAN</p> <p>FIGURE 2</p>
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LEGEND
 - - - - - PROPERTY BOUNDARY LINE

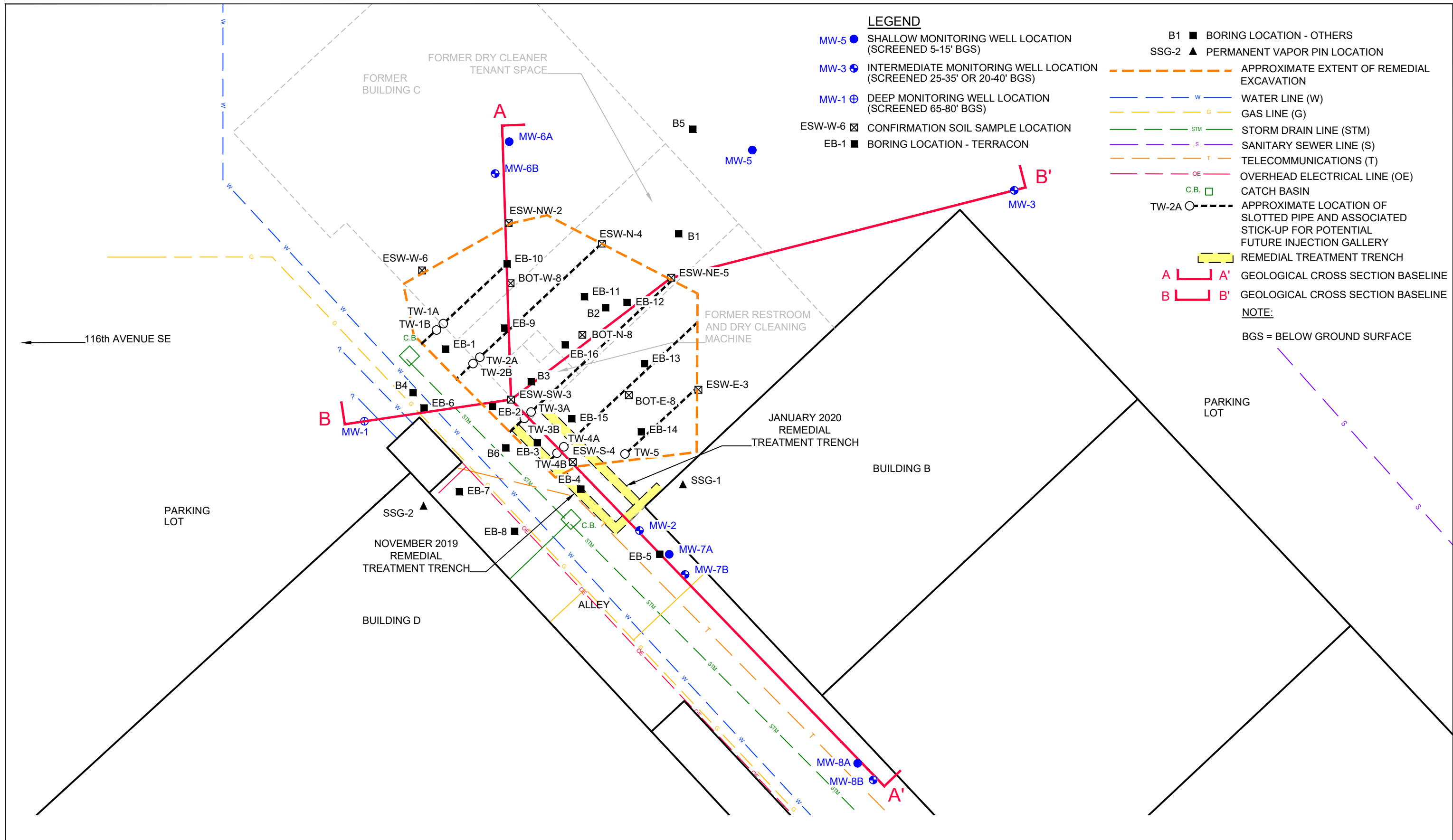


CASCADE VILLAGE - FORMER CASCADE CLEANERS
 16912 116th AVENUE SE
 RENTON, WASHINGTON

Project No. 12561532
 Date June 2022

AREA MAP

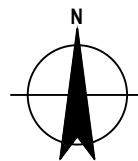
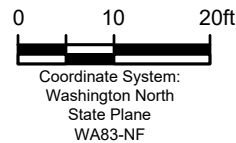
FIGURE 3



LEGEND

- MW-5 ● SHALLOW MONITORING WELL LOCATION (SCREENED 5-15' BGS)
- MW-3 ⊕ INTERMEDIATE MONITORING WELL LOCATION (SCREENED 25-35' OR 20-40' BGS)
- MW-1 ⊕ DEEP MONITORING WELL LOCATION (SCREENED 65-80' BGS)
- ESW-W-6 ☒ CONFIRMATION SOIL SAMPLE LOCATION
- EB-1 ■ BORING LOCATION - TERRACON
- B1 ■ BORING LOCATION - OTHERS
- SSG-2 ▲ PERMANENT VAPOR PIN LOCATION
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
- W --- WATER LINE (W)
- G --- GAS LINE (G)
- STM --- STORM DRAIN LINE (STM)
- S --- SANITARY SEWER LINE (S)
- T --- TELECOMMUNICATIONS (T)
- OE --- OVERHEAD ELECTRICAL LINE (OE)
- C.B. □ CATCH BASIN
- APPROXIMATE LOCATION OF SLOTTED PIPE AND ASSOCIATED STICK-UP FOR POTENTIAL FUTURE INJECTION GALLERY
- REMEDIAL TREATMENT TRENCH
- A A' GEOLOGICAL CROSS SECTION BASELINE
- B B' GEOLOGICAL CROSS SECTION BASELINE

NOTE:
BGS = BELOW GROUND SURFACE

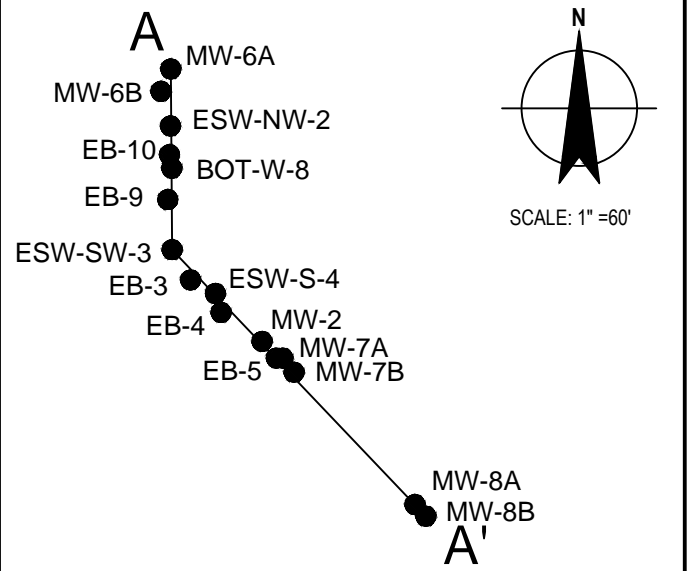
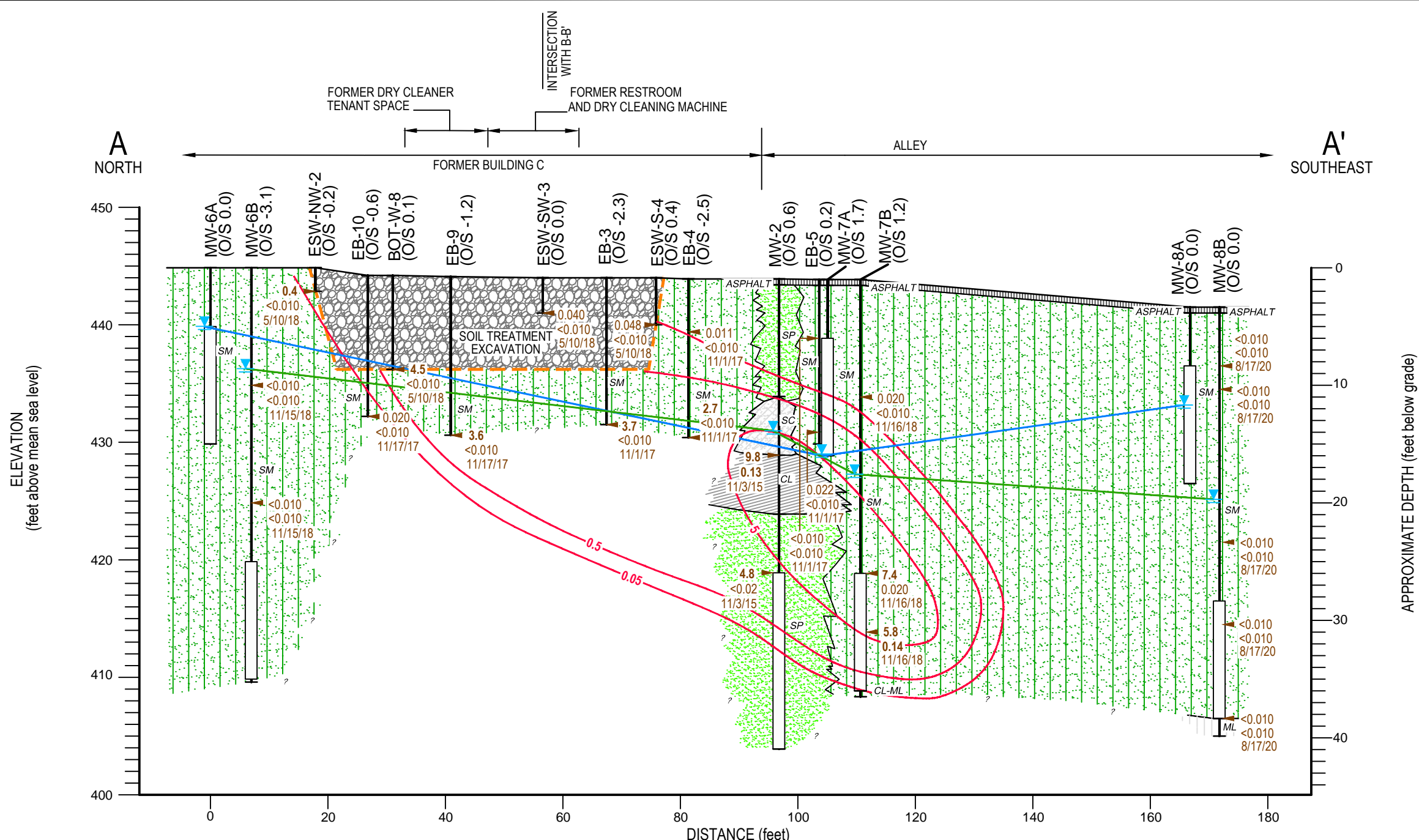


CASCADE VILLAGE - FORMER CASCADE CLEANERS
16912 116th AVENUE SE
RENTON, WASHINGTON

Project No. 12561532
Date June 2022

SOIL SAMPLE AND CROSS SECTION LOCATION MAP

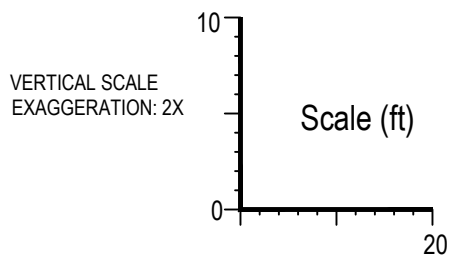
FIGURE 4



LEGEND

MW-6A	— WELL DESIGNATION		GROUNDWATER ELEVATION (8/31/20)
—	GROUND SURFACE ELEVATION		SHALLOW GROUNDWATER ZONE
—	GROUNDWATER MONITORING WELL		INTERMEDIATE GROUNDWATER ZONE
—	STRATIGRAPHIC BOUNDARY		PCE SOIL ISOCONCENTRATION CONTOUR
—	TYPICAL SOIL CLASSIFICATION		ASPHALT
—	SCREENED INTERVAL		FILL
—	BOTTOM OF BORING		SM - SILTY SANDS, SAND-SILT MIXTURES
CL	—		SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
—	APPROXIMATE SOIL SAMPLE LOCATION		SC - CLAYEY SANDS, SAND-SILT MIXTURES
PCE	PCE AND TCE CONCENTRATIONS		
TCE	IN SOIL (mg/kg)		
DATE	< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS		

NOTE:
BOLD DATA INDICATES THE CONCENTRATION EXCEEDED THE MODEL TOXICS CONTROL ACT (MTCA) METHOD A SCREENING LEVEL



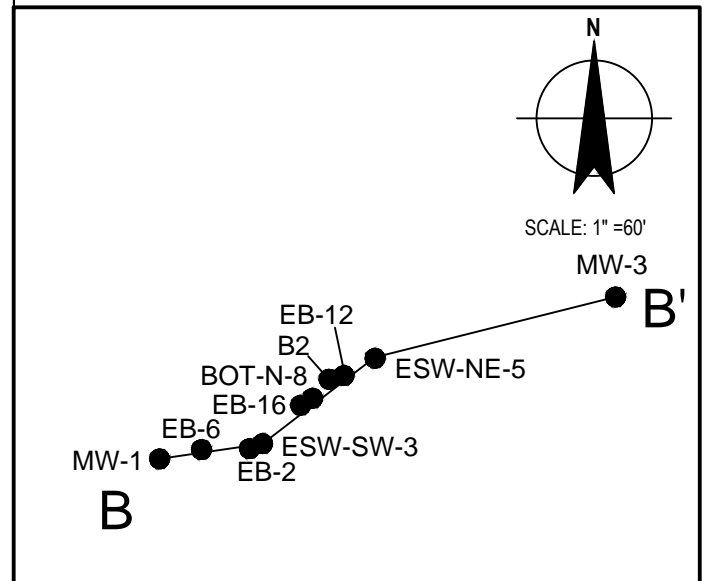
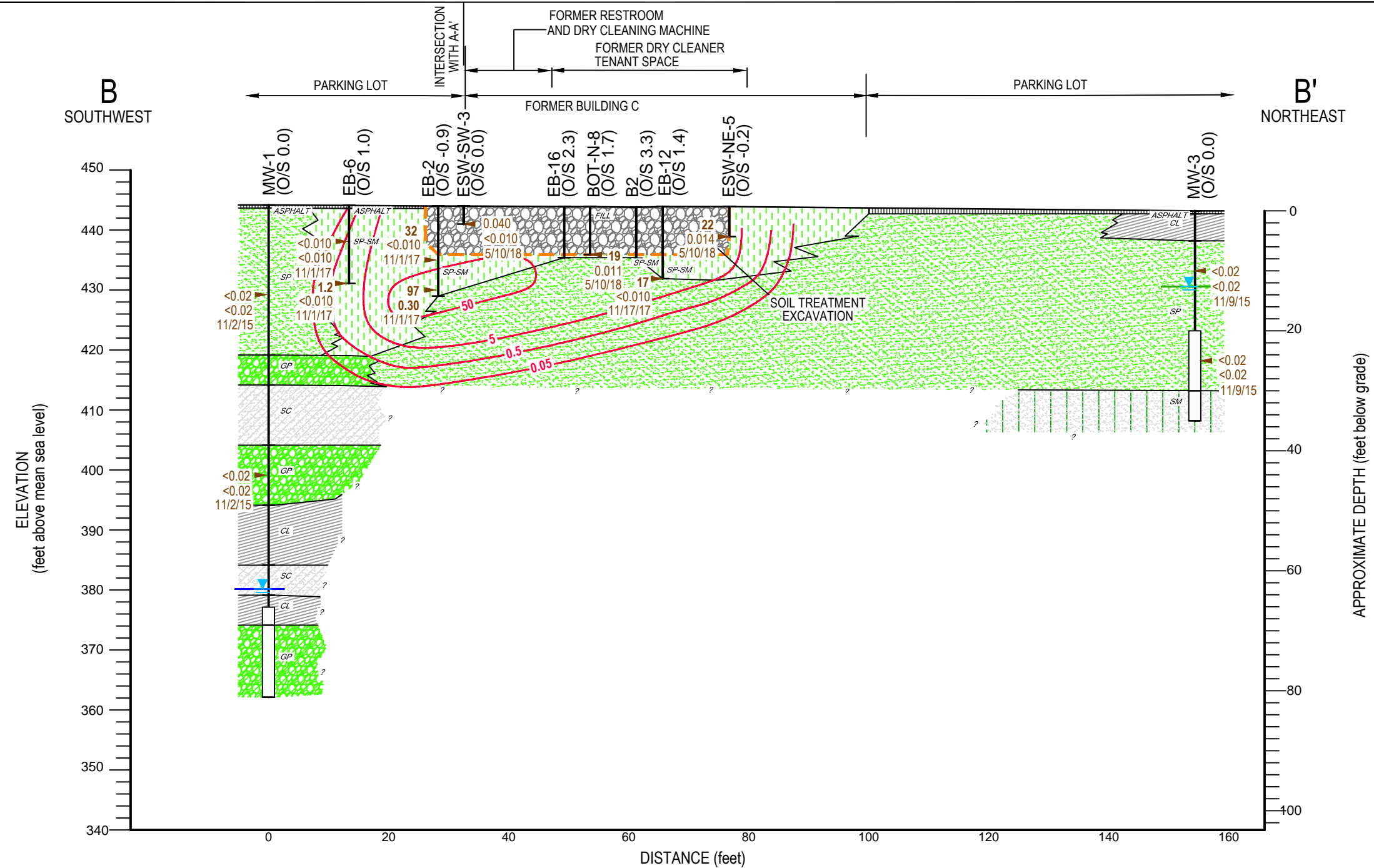
CASCADE VILLAGE - FORMER CASCADE CLEANERS
16912 116th AVENUE SE
RENTON, WASHINGTON

Project No. 12561532
Date June 2022

GHD

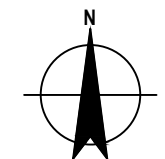
GEOLOGIC CROSS SECTION A-A'

FIGURE 5



LEGEND	
	WELL DESIGNATION
	GROUND SURFACE ELEVATION
	GROUNDWATER MONITORING WELL
	STRATIGRAPHIC BOUNDARY
	TYPICAL SOIL CLASSIFICATION
	SCREENED INTERVAL
	BOTTOM OF BORING
	GROUNDWATER ELEVATION (8/31/20)
	INTERMEDIATE GROUNDWATER ZONE
	DEEP GROUNDWATER ZONE
	PCE SOIL ISOCONCENTRATION CONTOUR
	ASPHALT
	FILL
	ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
	CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	GP - POORLY GRADED GRAVELS AND GRAVEL-SAND MIXTURES
	SM - SILTY SANDS, SAND-SILT MIXTURES
	SP - POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	SC - CLAYEY SANDS, SAND-SILT MIXTURES
	SP-SM - SAND WITH SILT

NOTE:
BOLD DATA INDICATES THE CONCENTRATION EXCEEDED THE MODEL TOXICS CONTROL ACT (MTCA) METHOD A SCREENING LEVEL

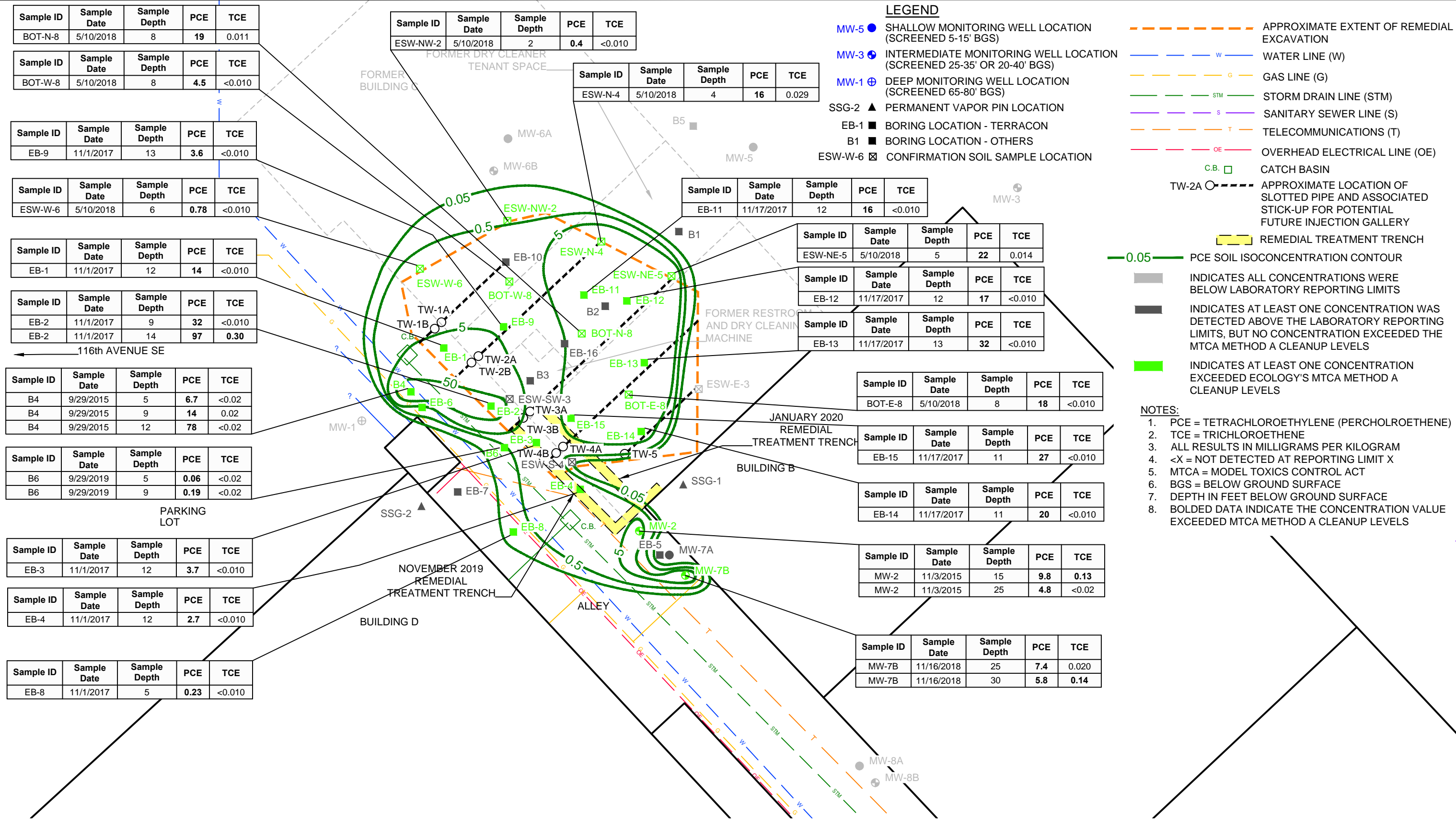


CASCADE VILLAGE - FORMER CASCADE CLEANERS
16912 116th AVENUE SE
RENTON, WASHINGTON

Project No. 12561532
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GEOLOGIC CROSS SECTION B-B'

FIGURE 6



Sample ID	Sample Date	Sample Depth	PCE	TCE
BOT-N-8	5/10/2018	8	19	0.011
BOT-W-8	5/10/2018	8	4.5	<0.010
EB-9	11/1/2017	13	3.6	<0.010
ESW-W-6	5/10/2018	6	0.78	<0.010
EB-1	11/1/2017	12	14	<0.010
EB-2	11/1/2017	9	32	<0.010
EB-2	11/1/2017	14	97	0.30
B4	9/29/2015	5	6.7	<0.02
B4	9/29/2015	9	14	0.02
B4	9/29/2015	12	78	<0.02
B6	9/29/2019	5	0.06	<0.02
B6	9/29/2019	9	0.19	<0.02
EB-3	11/1/2017	12	3.7	<0.010
EB-4	11/1/2017	12	2.7	<0.010
EB-8	11/1/2017	5	0.23	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
ESW-NW-2	5/10/2018	2	0.4	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
ESW-N-4	5/10/2018	4	16	0.029

Sample ID	Sample Date	Sample Depth	PCE	TCE
EB-11	11/17/2017	12	16	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
ESW-NE-5	5/10/2018	5	22	0.014

Sample ID	Sample Date	Sample Depth	PCE	TCE
EB-12	11/17/2017	12	17	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
EB-13	11/17/2017	13	32	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
BOT-E-8	5/10/2018	8	18	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
EB-15	11/17/2017	11	27	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
EB-14	11/17/2017	11	20	<0.010

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-2	11/3/2015	15	9.8	0.13
MW-2	11/3/2015	25	4.8	<0.02

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

Sample ID	Sample Date	Sample Depth	PCE	TCE
MW-7B	11/16/2018	25	7.4	0.020
MW-7B	11/16/2018	30	5.8	0.14

LEGEND

- MW-5 ● SHALLOW MONITORING WELL LOCATION (SCREENED 5-15' BGS)
- MW-3 ● INTERMEDIATE MONITORING WELL LOCATION (SCREENED 25-35' OR 20-40' BGS)
- MW-1 ⊕ DEEP MONITORING WELL LOCATION (SCREENED 65-80' BGS)
- SSG-2 ▲ PERMANENT VAPOR PIN LOCATION
- EB-1 ■ BORING LOCATION - TERRACON
- B1 ■ BORING LOCATION - OTHERS
- ESW-W-6 ☒ CONFIRMATION SOIL SAMPLE LOCATION
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
- W --- WATER LINE (W)
- G --- GAS LINE (G)
- STM --- STORM DRAIN LINE (STM)
- S --- SANITARY SEWER LINE (S)
- T --- TELECOMMUNICATIONS (T)
- OE --- OVERHEAD ELECTRICAL LINE (OE)
- C.B. □ CATCH BASIN
- TW-2A --- APPROXIMATE LOCATION OF SLOTTED PIPE AND ASSOCIATED STICK-UP FOR POTENTIAL FUTURE INJECTION GALLERY
- REMEDIAL TREATMENT TRENCH
- 0.05 PCE SOIL ISOCONCENTRATION CONTOUR
- INDICATES ALL CONCENTRATIONS WERE BELOW LABORATORY REPORTING LIMITS
- INDICATES AT LEAST ONE CONCENTRATION WAS DETECTED ABOVE THE LABORATORY REPORTING LIMITS, BUT NO CONCENTRATION EXCEEDED THE MTCA METHOD A CLEANUP LEVELS
- INDICATES AT LEAST ONE CONCENTRATION EXCEEDED ECOLOGY'S MTCA METHOD A CLEANUP LEVELS

- NOTES:**
- PCE = TETRACHLOROETHYLENE (PERCHLOROETHENE)
 - TCE = TRICHLOROETHENE
 - ALL RESULTS IN MILLIGRAMS PER KILOGRAM
 - <X = NOT DETECTED AT REPORTING LIMIT X
 - MTCA = MODEL TOXICS CONTROL ACT
 - BGS = BELOW GROUND SURFACE
 - DEPTH IN FEET BELOW GROUND SURFACE
 - BOLDED DATA INDICATE THE CONCENTRATION VALUE EXCEEDED MTCA METHOD A CLEANUP LEVELS

0 10 20ft

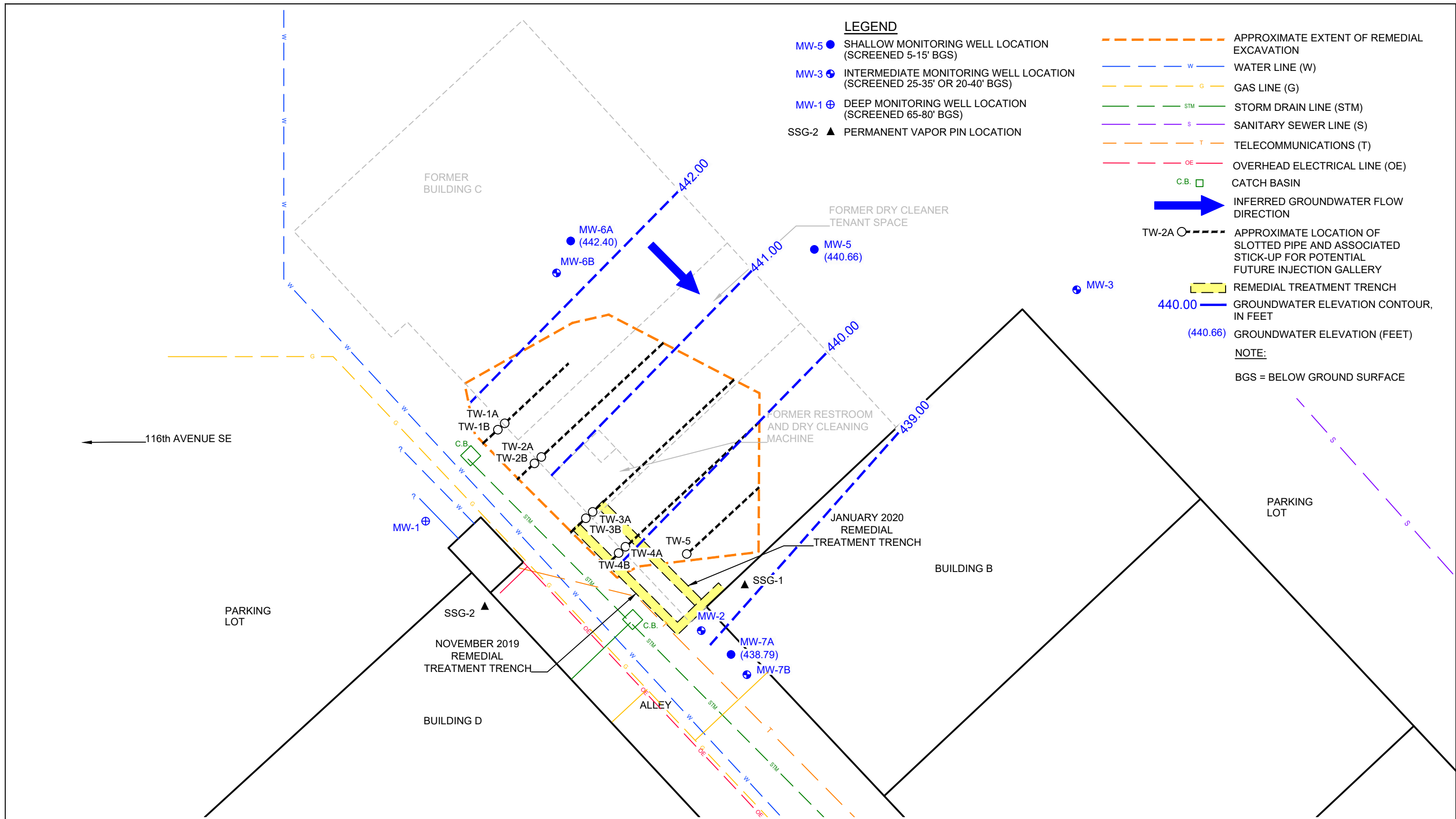
Coordinate System:
Washington North
State Plane
WA83-NF

CASCADE VILLAGE - FORMER CASCADE CLEANERS
16912 116th AVENUE SE
RENTON, WASHINGTON

**PCE SOIL ISOCONCENTRATION
CONTOUR MAP - 2-30 FEET BGS**

Project No. 12561532
Date June 2022

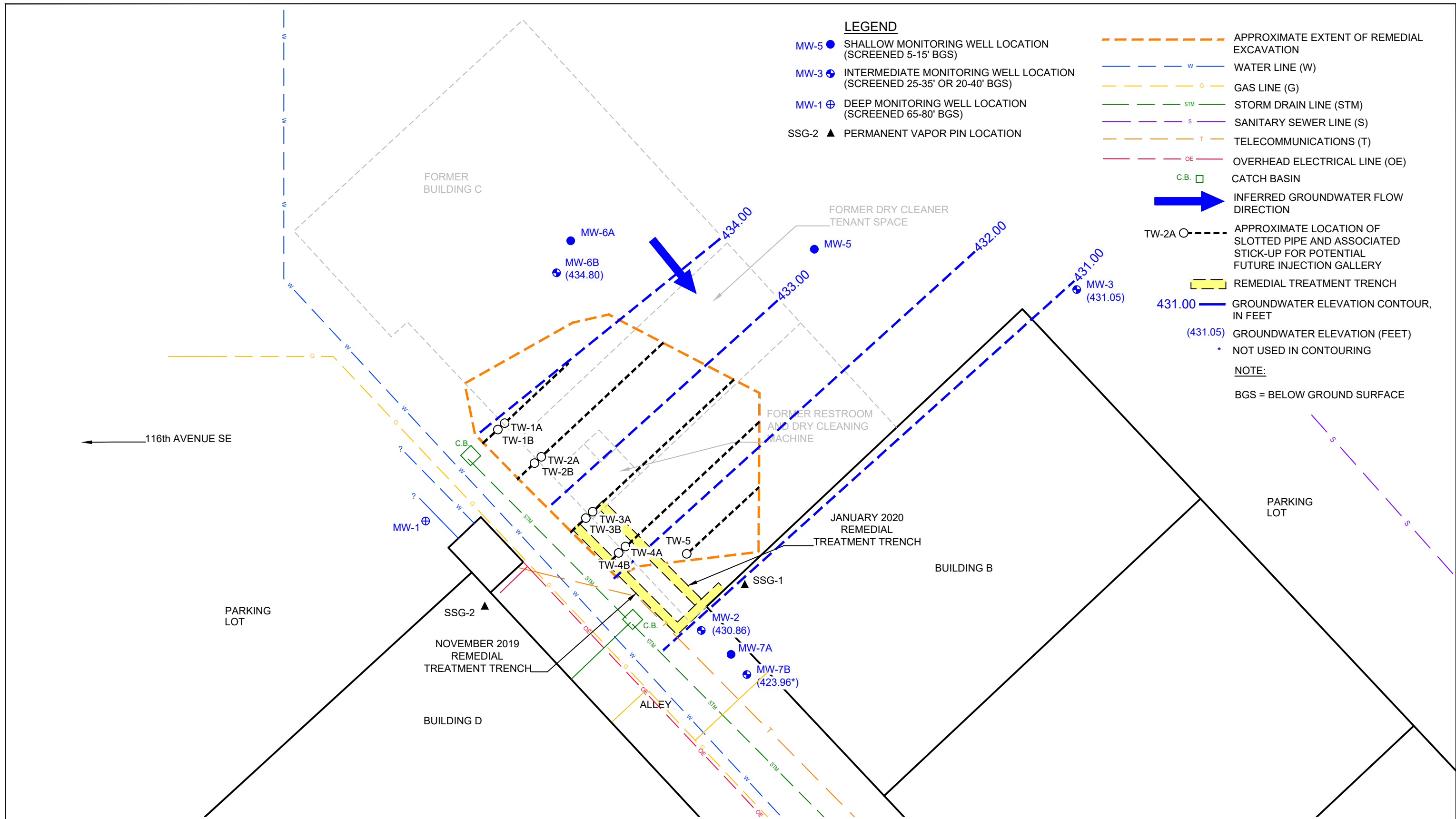
FIGURE 7



Source: Terracon Consulting and Engineers and Scientists, Site Diagrams dated 6/2018 and 8/2017.

<p>0 10 20ft</p> <p>Coordinate System: Washington North State Plane WA83-NF</p>			<p>CASCADE VILLAGE - FORMER CASCADE CLEANERS 16912 116th AVENUE SE RENTON, WASHINGTON</p> <p>SHALLOW ZONE GROUNDWATER CONTOUR MAP - DECEMBER 3, 2018</p>	<p>Project No. 12561532 Date June 2022</p>
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FIGURE 8a



LEGEND

- MW-5 ● SHALLOW MONITORING WELL LOCATION (SCREENED 5-15' BGS)
 - MW-3 ⊕ INTERMEDIATE MONITORING WELL LOCATION (SCREENED 25-35' OR 20-40' BGS)
 - MW-1 ⊕ DEEP MONITORING WELL LOCATION (SCREENED 65-80' BGS)
 - SSG-2 ▲ PERMANENT VAPOR PIN LOCATION
 - APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
 - W WATER LINE (W)
 - G GAS LINE (G)
 - STM STORM DRAIN LINE (STM)
 - S SANITARY SEWER LINE (S)
 - T TELECOMMUNICATIONS (T)
 - OE OVERHEAD ELECTRICAL LINE (OE)
 - C.B. □ CATCH BASIN
 - ➔ INFERRED GROUNDWATER FLOW DIRECTION
 - TW-2A ○ --- APPROXIMATE LOCATION OF SLOTTED PIPE AND ASSOCIATED STICK-UP FOR POTENTIAL FUTURE INJECTION GALLERY
 - REMEDIAL TREATMENT TRENCH
 - 431.00 --- GROUNDWATER ELEVATION CONTOUR, IN FEET
 - (431.05) GROUNDWATER ELEVATION (FEET)
 - * NOT USED IN CONTOURING
- NOTE:**
BGS = BELOW GROUND SURFACE

Source: Terracon Consulting and Engineers and Scientists, Site Diagrams dated 6/2018 and 8/2017.

0 10 20ft

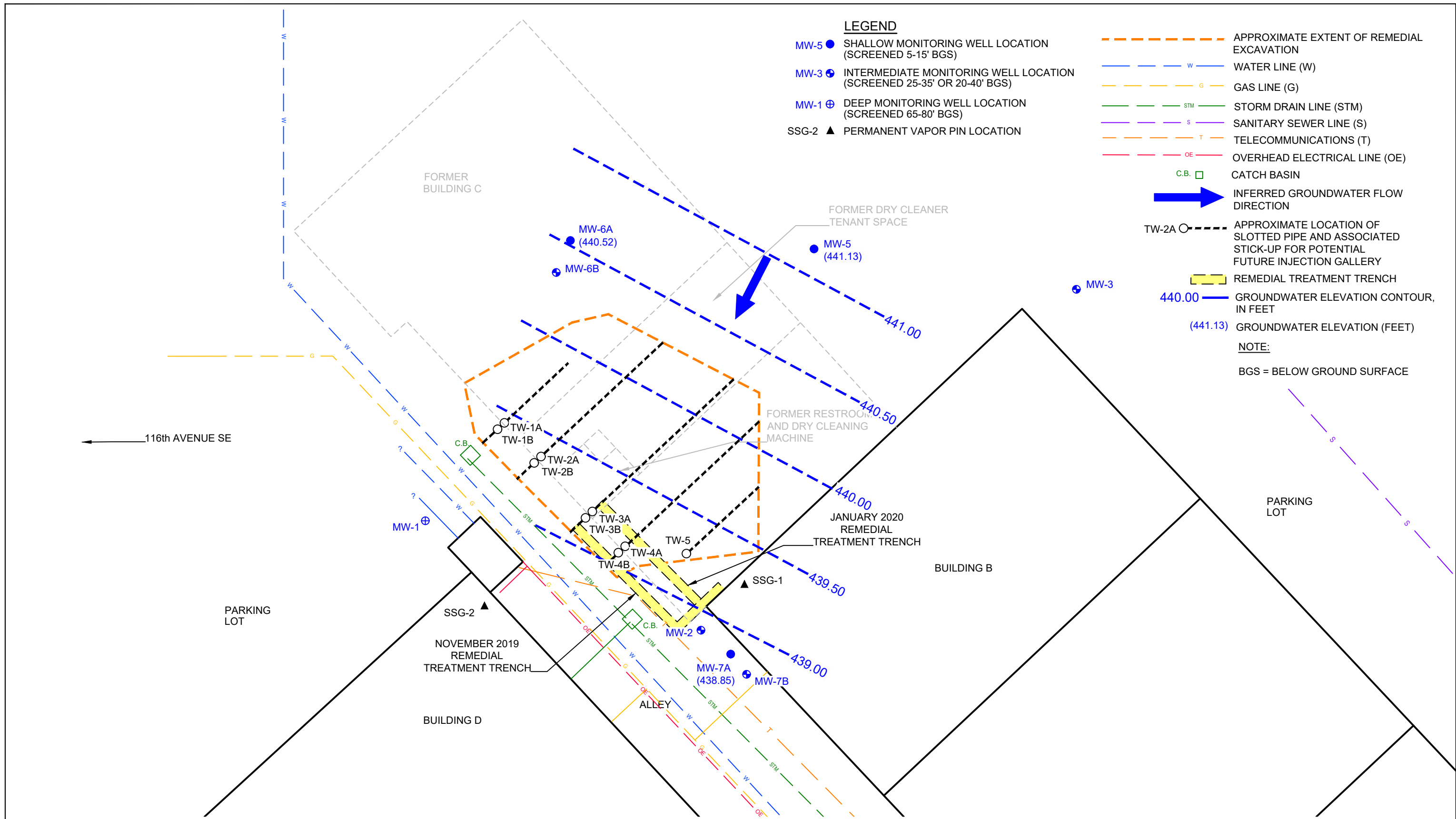
Coordinate System:
Washington North
State Plane
WA83-NF

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16912 116th AVENUE SE
RENTON, WASHINGTON

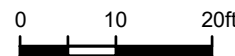
Project No. 12561532
Date June 2022

**INTERMEDIATE ZONE GROUNDWATER
CONTOUR MAP - DECEMBER 3, 2018**

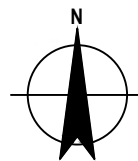
FIGURE 8b



Source: Terracon Consulting and Engineers and Scientists, Site Diagrams dated 6/2018 and 8/2017.



Coordinate System:
Washington North
State Plane
WA83-NF

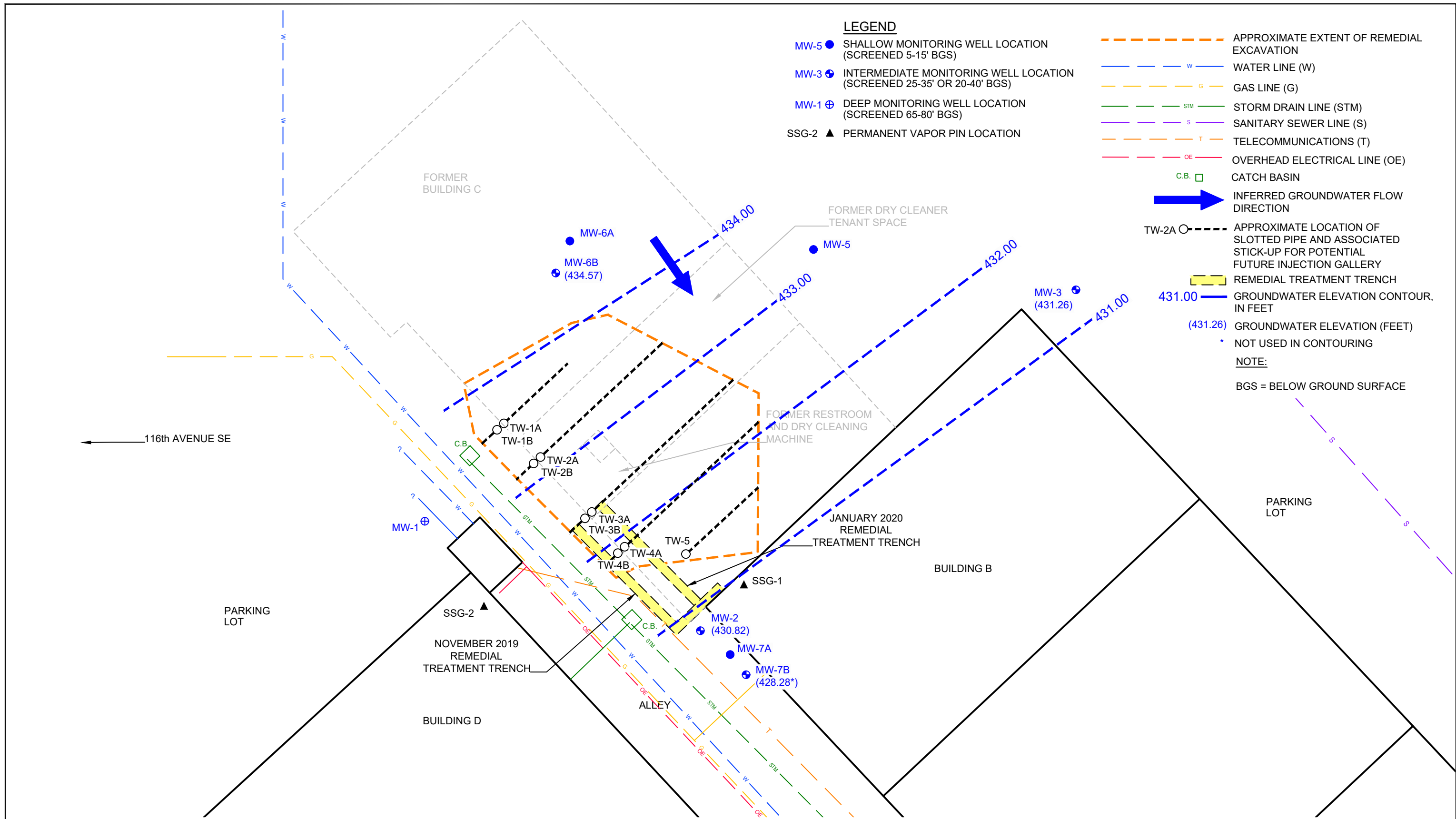


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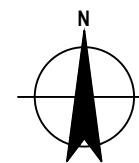
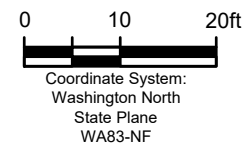
Project No. 12561532
Date June 2022

SHALLOW ZONE GROUNDWATER
CONTOUR MAP - MAY 2, 2019

FIGURE 9a



Source: Terracon Consulting and Engineers and Scientists, Site Diagrams dated 6/2018 and 8/2017.

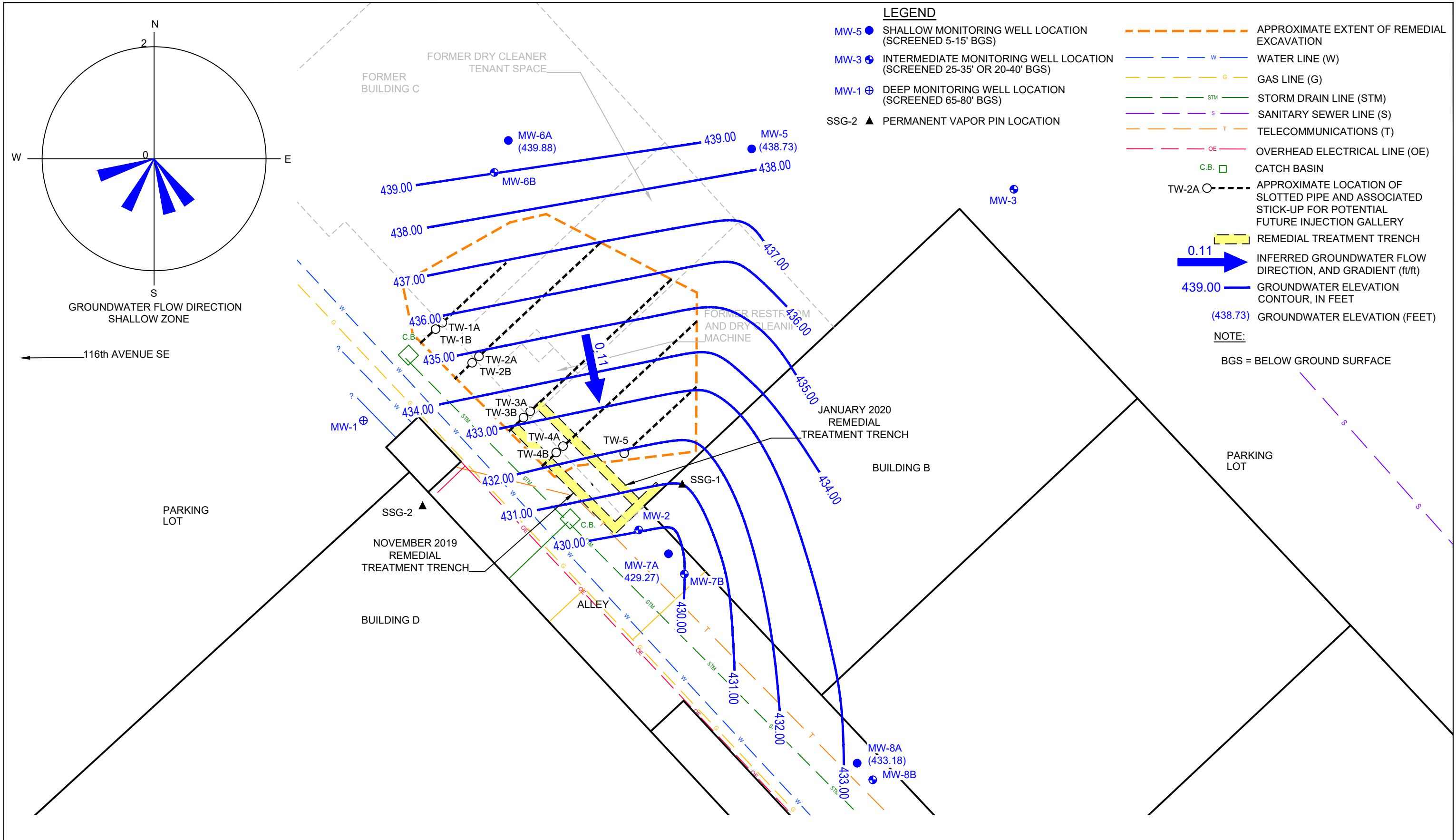


CASCADE VILLAGE - FORMER CASCADE CLEANERS
16912 116th AVENUE SE
RENTON, WASHINGTON

Project No. 12561532
Date June 2022

INTERMEDIATE ZONE GROUNDWATER
CONTOUR MAP - MAY 2, 2019

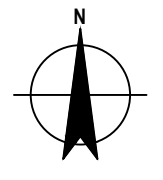
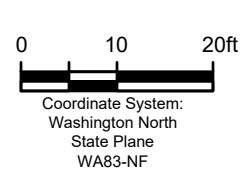
FIGURE 9b



LEGEND

- MW-5 ● SHALLOW MONITORING WELL LOCATION (SCREENED 5-15' BGS)
- MW-3 ⊕ INTERMEDIATE MONITORING WELL LOCATION (SCREENED 25-35' OR 20-40' BGS)
- MW-1 ⊕ DEEP MONITORING WELL LOCATION (SCREENED 65-80' BGS)
- SSG-2 ▲ PERMANENT VAPOR PIN LOCATION
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
- W --- WATER LINE (W)
- G --- GAS LINE (G)
- STM --- STORM DRAIN LINE (STM)
- S --- SANITARY SEWER LINE (S)
- T --- TELECOMMUNICATIONS (T)
- OE --- OVERHEAD ELECTRICAL LINE (OE)
- C.B. □ CATCH BASIN
- TW-2A ○ --- APPROXIMATE LOCATION OF SLOTTED PIPE AND ASSOCIATED STICK-UP FOR POTENTIAL FUTURE INJECTION GALLERY
- REMEDIAL TREATMENT TRENCH
- 0.11 → INFERRED GROUNDWATER FLOW DIRECTION, AND GRADIENT (ft/ft)
- 439.00 --- GROUNDWATER ELEVATION CONTOUR, IN FEET
- (438.73) GROUNDWATER ELEVATION (FEET)

NOTE:
BGS = BELOW GROUND SURFACE

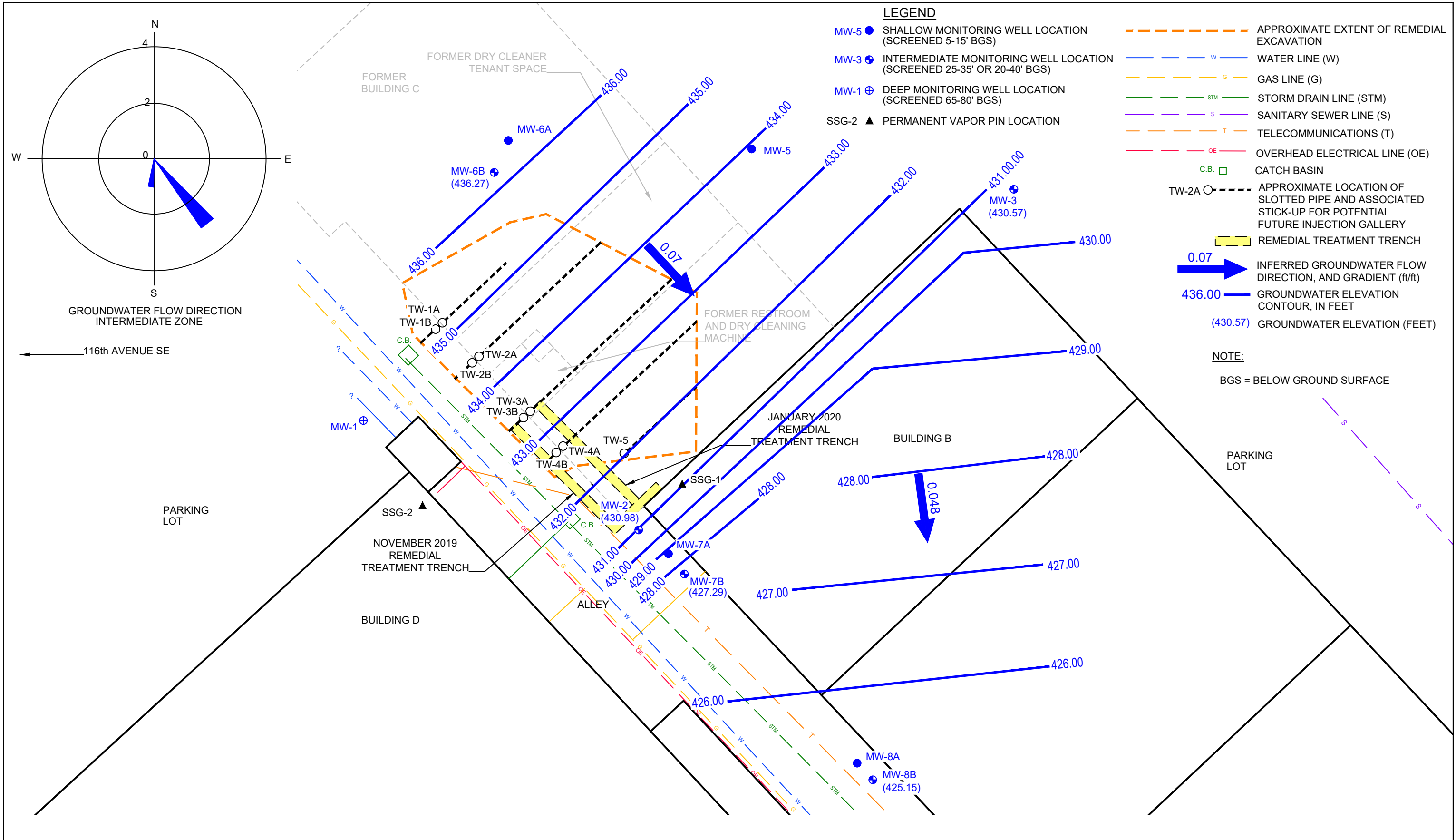


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16912 116th AVENUE SE
RENTON, WASHINGTON

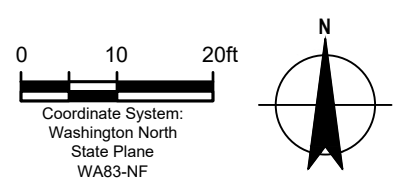
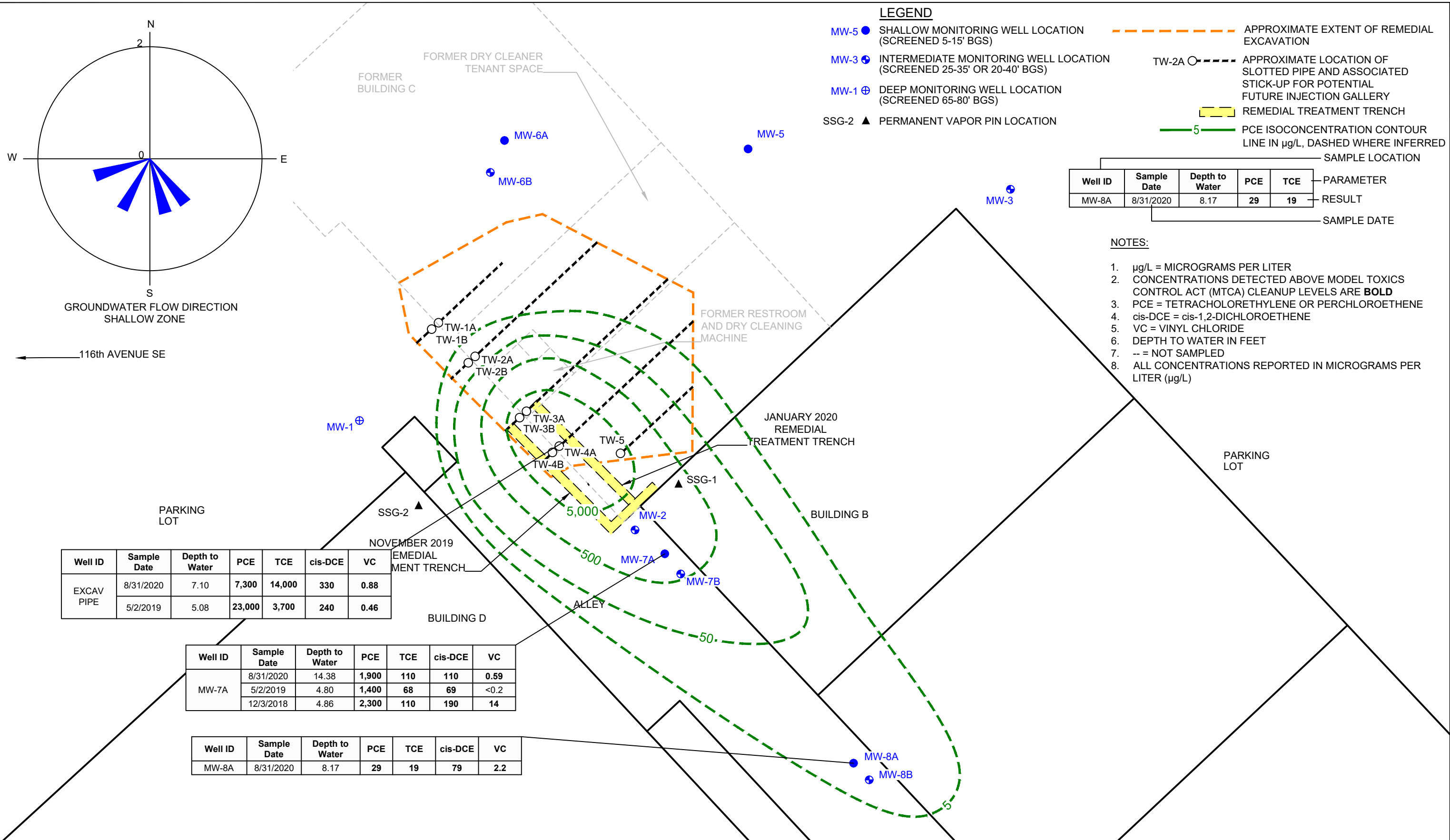
Project No. 12561532
Date June 2022

**SHALLOW ZONE GROUNDWATER
CONTOUR MAP - AUGUST 31, 2020**

FIGURE 10a



Filename: N:\US\Lynnwood\Projects\6112561532\Digital_Design\ACAD\Figures\RPTR\WPI\12561532-GHD-00-00-RPT-EN-D108_SO-RWP.DWG
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Data Source: Terracon Consulting and Engineers and Scientists, Site Diagrams dated 6/2018 and 8/2017.

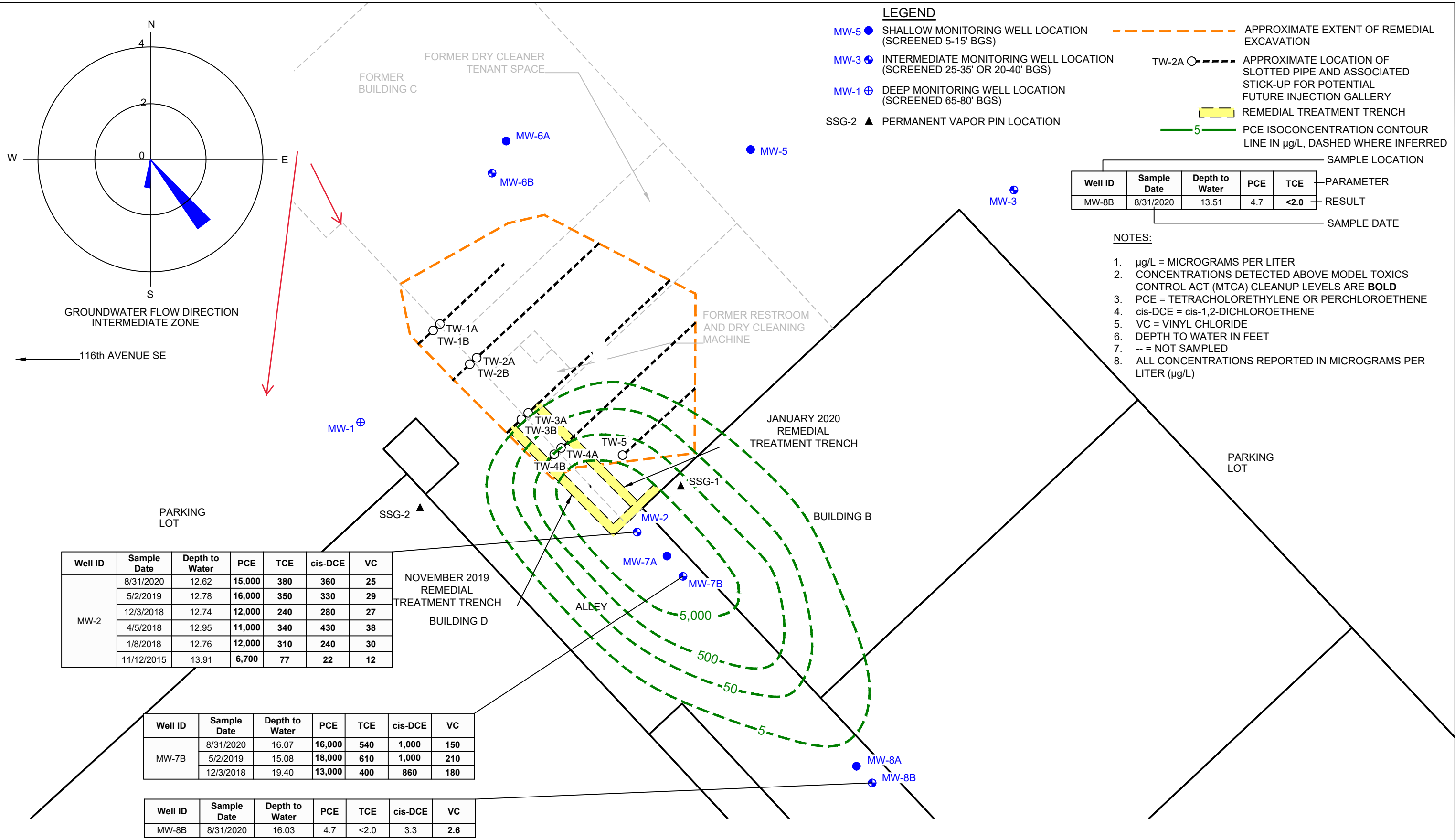


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 16912 116th AVENUE SE
 RENTON, WASHINGTON

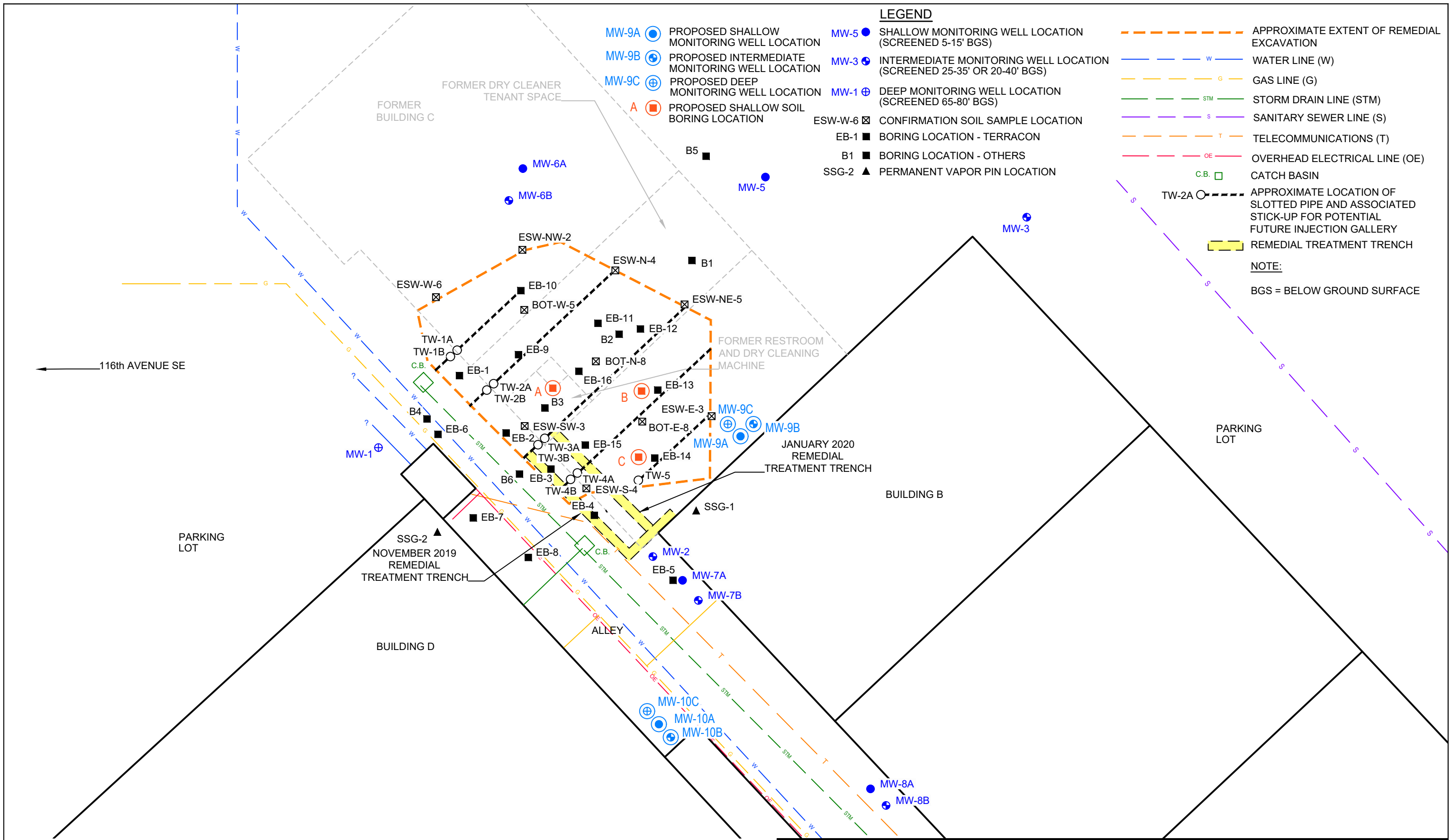
**SHALLOW ZONE GROUNDWATER
 CHEMICAL CONCENTRATION MAP -
 2018 TO 2020**

Project No. 12561532
 Date June 2022

FIGURE 11a



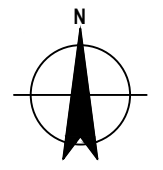
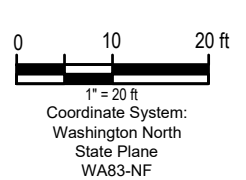
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Plot Date: 16 June 2022 2:23 PM
Data Source: Terracon Consulting and Engineers and Scientists, Site Diagrams dated 6/2018 and 8/2017.



LEGEND

- MW-9A ● PROPOSED SHALLOW MONITORING WELL LOCATION
- MW-9B ● PROPOSED INTERMEDIATE MONITORING WELL LOCATION
- MW-9C ● PROPOSED DEEP MONITORING WELL LOCATION
- A ● PROPOSED SHALLOW SOIL BORING LOCATION
- MW-5 ● SHALLOW MONITORING WELL LOCATION (SCREENED 5-15' BGS)
- MW-3 ● INTERMEDIATE MONITORING WELL LOCATION (SCREENED 25-35' OR 20-40' BGS)
- MW-1 ● DEEP MONITORING WELL LOCATION (SCREENED 65-80' BGS)
- ESW-W-6 ☒ CONFIRMATION SOIL SAMPLE LOCATION
- EB-1 ■ BORING LOCATION - TERRACON
- B1 ■ BORING LOCATION - OTHERS
- SSG-2 ▲ PERMANENT VAPOR PIN LOCATION
- APPROXIMATE EXTENT OF REMEDIAL EXCAVATION
- W --- WATER LINE (W)
- G --- GAS LINE (G)
- STM --- STORM DRAIN LINE (STM)
- S --- SANITARY SEWER LINE (S)
- T --- TELECOMMUNICATIONS (T)
- OE --- OVERHEAD ELECTRICAL LINE (OE)
- C.B. □ CATCH BASIN
- TW-2A APPROXIMATE LOCATION OF SLOTTED PIPE AND ASSOCIATED STICK-UP FOR POTENTIAL FUTURE INJECTION GALLERY
- REMEDIAL TREATMENT TRENCH

NOTE:
BGS = BELOW GROUND SURFACE



CASCADE VILLAGE - FORMER CASCADE CLEANERS
16912 116th AVENUE SE
RENTON, WASHINGTON

Project No. 12561532
Date June 2022

PROPOSED BORING LOCATION MAP

FIGURE 12

Appendices

Appendix A

**Summary of Previous Site Investigations
and Remedial Activities and Environmental
Documents List**

Appendix A Summary of Previous Site Investigations and Remedial Activities

2008 Groundwater Sampling Event – MW-5: In January 2008, Zipper Zeman Associates-Terracon (ZZA-Terracon) collected a groundwater sample from groundwater monitoring well MW-5 located east of the former Cascade Cleaners tenant space. MW-5 was installed in May 2003 as part of a petroleum hydrocarbon release investigation associated with a former Texaco-branded gas station located on the northwestern corner of the Property at Building E. The groundwater sample collected from MW-5 in January 2008 was analyzed for volatile organic compounds (VOCs), including tetrachloroethylene (also referred to as perchloroethylene, or PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-DCE), trans-1,2-dichloroethylene (trans-DCE), 1,1-dichloroethylene (DCE), and vinyl chloride (VC), by United States Environmental Protection Agency (EPA) Method 8260B. The sample results for VOCs were below the laboratory method reporting limits (MRLs). More information can be found in ZZA-Terracon's *Limited Groundwater Sampling Results* report dated January 23, 2008.

2015 Phase I Site Assessment: In May 2015, Partner Engineering and Science, Inc. (Partner) completed a Phase I Environmental Site Assessment (ESA) of the Property on behalf of AMERCO Real Estate Company. The Property consisted of one 13.63-acre parcel developed with five structures (Building A through Building E) totaling approximately 102,000 square feet. The buildings were constructed in between 1959 and 1986 and were occupied by Cascade Village for commercial and retail use. Tenants included various retail and commercial tenants. A vacant tenant space in Building C was reportedly occupied by a dry-cleaning business (Cascade Cleaners) from at least 1977 until approximately 2010. Separator water and spent solvents were reportedly stored in 30-gallon drums and recycled through a licensed hazardous waste disposal company. The drums and solvent were reportedly stored on a secondary spill containment pallet. More information can be found in Partner's *Phase I Environmental Site Assessment* report dated May 22, 2015.

June 2015 Phase II Subsurface Investigation: In June 2015, Partner advanced three soil borings (B1 through B3) within the interior of the former dry cleaner tenant space to depths ranging from approximately 5.5 to 7 feet below grade surface (bgs). Soil samples collected from the borings at depths ranging from approximately 5 to 7 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. PCE (2.5 and 4.2 milligrams per kilogram [mg/kg]) and/or TCE (0.06 mg/kg) were detected in soil samples collected from borings B2 and B3 at depths of approximately 7 and 5.5 feet bgs, respectively, at concentrations exceeding the Washington State Model Toxics Control Act (MTCA) Method A cleanup levels of 0.05 mg/kg for PCE and 0.03 mg/kg for TCE.

Borings B1 through B3 were completed as temporary soil vapor probes following collection of soil samples. Each temporary soil vapor probe was completed with a filter and tubing to approximately 4 feet bgs. Soil vapor samples SG1-4 through SG3-4 were collected in Summa canisters from the temporary soil vapor probes installed in borings B1 through B3, respectively, and analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method TO-15. PCE (530,000 and 19,000 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]), TCE (12,000 and 4,900 $\mu\text{g}/\text{m}^3$), cis-DCE (26,000 and 6,700 $\mu\text{g}/\text{m}^3$), and/or trans-DCE (1,400 $\mu\text{g}/\text{m}^3$) were detected in samples SG2-4 and SG3-4, respectively, at concentrations exceeding the MTCA Method B screening levels of 320 $\mu\text{g}/\text{m}^3$ for PCE, 11 $\mu\text{g}/\text{m}^3$ for TCE, and/or 610 $\mu\text{g}/\text{m}^3$ for trans-DCE. In addition, total xylenes (20,100 to 35,200 $\mu\text{g}/\text{m}^3$), 1,3,5-trimethylbenzene (1,500 $\mu\text{g}/\text{m}^3$), and 1,2,4-trimethylbenzene (3,000 to 5,500 $\mu\text{g}/\text{m}^3$) were detected in samples SG1-4, SG2-4, and/or SG3-4 at concentrations exceeding the MTCA Method B screening level of 1,500 $\mu\text{g}/\text{m}^3$ for total xylenes, 910 $\mu\text{g}/\text{m}^3$ for 1,3,5-trimethylbenzene, and 910 $\mu\text{g}/\text{m}^3$ for 1,2,4-trimethylbenzene. No other concentrations exceeded MTCA Method A or MTCA Method B cleanup or screening levels. More information can be found in Partner's *Phase II Subsurface Investigation Report* dated July 6, 2015.

September 2015 Phase II Subsurface Investigation: In September 2015, Partner advanced three soil borings (B4 through B6) outside of the former dry cleaner tenant space to depths ranging from

approximately 9 to 12 feet bgs. Borings B4 and B6 were advanced in the alleyway located west of the former dry cleaner tenant space and B5 was advanced on the east side of the former dry cleaner tenant space. Soil samples collected from the borings at depths ranging from approximately 5 to 12 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. PCE (0.06 to 78 mg/kg) were detected in soil samples collected from borings B4 and B6 at depths ranging from approximately 5 to 12 feet bgs at concentrations exceeding the MTCA Method A cleanup level. A groundwater sample collected from monitoring well MW-5 in September 2015 was also analyzed for VOCs, including PCE, TCE, cis-1,2-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. The groundwater sample results for VOCs were below the laboratory MRLs. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup levels. More information can be found in Partner's *Phase II Subsurface Investigation Report* dated October 13, 2015.

November 2015 Additional Subsurface Investigation: In November 2015, Partner advanced three soil borings (MW-1 through MW-3) to depths ranging from approximately 35 to 82 feet bgs. MW-1 and MW-2 were advanced in the alleyway west of the former dry cleaner tenant space, and MW-3 was advanced southeast of the former dry cleaner tenant space. Soil samples collected from the borings at depths ranging from approximately 10 to 45 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. The soil samples collected from MW-2 at 15 and 25 feet bgs contained PCE (9.8 and 4.8 mg/kg) and/or TCE (0.13 mg/kg) at concentrations exceeding the MTCA Method A cleanup levels.

Borings MW-1 through MW-3 were completed as groundwater monitoring wells with 2-inch diameter Schedule 40 polyvinyl chloride (PVC) well casing and well screens with 0.010-inch machine-cut slots. Well MW-1 was advanced to approximately 82 feet bgs and screened from approximately 67 to 82 feet bgs. Groundwater was reportedly encountered in MW-1 at approximately 72 feet bgs and rose to approximately 64.5 feet bgs in the well casing. MW-2 was advanced to approximately 40 feet bgs and screened from approximately 25 to 40 feet bgs, and MW-3 was advanced to approximately 35 feet bgs and screened from approximately 20 to 35 feet bgs. Groundwater was reportedly encountered in MW-2 and MW-3 at approximately 25 to 35 feet bgs and rose to approximately 12 to 14 feet bgs in the well casings. Well MW-5 appears to be screened in a shallow water-bearing zone, wells MW-2 and MW-3 appear to be screened in an intermediate water-bearing zone, and well MW-1 appears to be screened in a deep water-bearing zone.

Groundwater samples collected from monitoring wells MW-1 through MW-3 were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260C. The groundwater sample collected from MW-2 contained PCE (6,700 micrograms per liter [$\mu\text{g/L}$]), TCE (77 $\mu\text{g/L}$), cis-DCE (22 $\mu\text{g/L}$), and VC (12 $\mu\text{g/L}$) at concentrations exceeding their respective MTCA Method A or MTCA Method B cleanup levels of 5 $\mu\text{g/L}$, 5 $\mu\text{g/L}$, 16 $\mu\text{g/L}$, and 0.2 $\mu\text{g/L}$. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup levels. More information can be found in Partner's *Additional Subsurface Investigation Report* dated November 24, 2015.

2017 Site Assessment: In November 2017, Terracon advanced 16 soil borings (EB-1 through EB-16) to depths ranging from approximately 8.5 to 15 feet bgs. Building C, including the former dry cleaner tenant space, was demolished in September and October 2017. The building concrete slab was left in-place. Borings EB-1 through EB-8 were advanced in the alleyway west of the former dry cleaner tenant space, and borings EB-9 through EB-16 were advanced through the concrete slab in the former Building C area. Soil samples collected from the borings at depths ranging from approximately 4 to 14 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. The soil samples collected from borings EB-1 through EB-4, EB-6, and EB-8 through EB-16 at depths ranging from approximately 4 to 14 feet bgs contained PCE (0.23 to 2,500 mg/kg) and/or TCE (0.22 to 0.87 mg/kg) at concentrations exceeding the MTCA Method A cleanup levels. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup levels. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

2018 Groundwater Monitoring and Treatment at MW-2: In January 2018, a groundwater sample was collected from monitoring well MW-2 as part of a remedial treatment pilot study. Measured depth to

groundwater in the well was 12.76 feet below TOC. The MW-2 groundwater sample was analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. The sample contained PCE (12,000 µg/L), TCE (310 µg/L), cis-DCE (240 µg/L), and VC (30 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B cleanup levels.

The MW-2 groundwater sample was also analyzed for dissolved gases (methane, ethane, and ethene) by the R. S. Kerr EPA Laboratory Method RSK-175 standard operating procedure (SOP); biochemical oxygen demand (BOD) by Standard Method (SM) 5210B; chloride, nitrate, nitrite, and sulfate by EPA Method 300.0; total and dissolved (field filtered) iron and manganese by EPA Method 200.8; alkalinity by SM 2320B; sulfide by EPA Method 376.1; and total organic carbon (TOC) by SM 5310C. Methane (0.030 milligrams per liter [mg/L]), chloride (9.1 mg/L), sulfate (16 mg/L), total iron (72 µg/L), total and dissolved manganese (both at 130 µg/L), alkalinity (94 mg/L), and TOC (1.3 mg/L) were reported for the sample.

A groundwater sample was also collected from MW-2 for microbial analysis using a Bio-Flo filter. Approximately 1 to 2 liters of groundwater were pumped through the Bio-Flo filter. The filter was then submitted to Microbial Insights, Inc. of Knoxville, Tennessee and analyzed for *Dehalococcoides* (DHC) dechlorinating bacteria and for the dehalogenase genes BAV1 Vinyl Chloride Reductase (BVC), *tceA* Reductase (TCE), and Vinyl Chloride Reductase (VCR). DHC (6.30 cells per milliliter [cells/ml]) were detected in the sample. The remaining results were below the laboratory MRLs. According to Microbial Insights, a DHC concentration of 10,000 cells/mL is a screening criterion to identify sites where biological reductive dechlorination is predicted to proceed at “generally useful” rates.

Following the collection of the groundwater samples from MW-2, a remedial treatment pilot study was initiated at the well utilizing an enhanced reductive dechlorination (ERD) biostimulation product, TerraStryke Products LLC (TerraStryke) ERDenhanced™. Terracon installed a string of four 5-foot long ERDenhanced™ Passive Release Sock (PRS) units into the well. The PRS units were installed below the groundwater table and attached to the well J-lug cap using zip ties and a nylon rope.

In April 2018, the PRS units were removed and a groundwater sample was collected from monitoring well MW-2. Measured depth to groundwater in the well was 12.95 feet below TOC. The MW-2 sample was analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. The sample contained PCE (11,000 µg/L), TCE (340 µg/L), cis-DCE (430 µg/L), and VC (38 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B cleanup levels. Following the sampling event, a string of four new ERDenhanced™ PRS units were installed in MW-2. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup levels. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

2018 Interim Remedial Action: In April or May 2018, the former Building C concrete slab was removed. Based on the 2015 and 2017 soil boring sample data, identified soil with PCE impacts exceeding MTCA Method A cleanup levels within the former Building C footprint were excavated in May 2018 to a depth of approximately 8 feet bgs. Excavator refusal was encountered at approximately 8 feet bgs due to dense glacial till. A minor amount of groundwater accumulated in the bottom of the excavation. The final extents of the excavation measured approximately 70 feet north-south by 33 feet east-west and 9 feet deep. The excavated soil (approximately 770 cubic yards) was stockpiled on the northern portion of the former Building C area.

In May 2018, Terracon collected five soil samples (SP-1 through SP-5) from the stockpile and 10 soil samples (ESW-N-4, ESW-NE-5, ESW-E-3, ESW-S-4, ESW-SW-3, ESW-W-6, ESW-NW-2, BOT-W-8, BOT-N-8, and BOT-E-8) from the excavation sidewalls and bottom at depths ranging from approximately 2 to 8 feet bgs. The soil samples were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. SP-1 through SP-5 contained PCE (0.62 to 4.3 mg/kg) at concentrations exceeding the MTCA Method A cleanup level. The average PCE soil concentration was 2.3 mg/kg and the median concentration was 2.1 mg/kg. Soil samples ESW-N-4, ESW-NE-5, ESW-W-6, ESW-NW-2, BOT-W-8, BOT-N-8, and BOT-E-8 collected from the excavation sidewalls and bottom at depths ranging from approximately 2 to 8 feet bgs contained PCE (0.4 to 22 mg/kg) at concentrations

exceeding the MTCA Method A cleanup level. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup levels.

Prior to the backfilling the remedial excavation, the excavation contractor installed five horizontal 4-inch-diameter Schedule 40 PVC slotted pipe runs 25 to 45 feet long and spaced approximately 10 to 15 feet apart in the bottom of the excavation (approximately 9 feet bgs). The pipe runs were oriented southwest to northeast and stubbed to the surface using blank 4-inch Schedule 40 PVC pipe with 45-degree elbows. The stub up and the distal end of each pipe run were capped with PVC slip caps. Each horizontal slotted pipe run was bedded in washed drain rock and covered with filter fabric. The pipe runs were stubbed to the ground surface on the west (alleyway) side of the excavation.

Following the installation of the horizontal slotted pipe runs, the contractor backfilled the excavation in approximately 2-foot lifts using the stockpiled soil. Approximately 2,000 pounds of PeroxyChem Klozur® SP sodium persulfate treatment compound were placed on the surface of each soil lift and mixed into the soil using a hydraulic auger head mounted on a small excavator. Approximately 5,400 pounds (502 gallons) of a 25% sodium hydroxide (NaOH) solution were added to each treated soil lift using a spray applicator and mixed into the soil using the auger head. A total of approximately 8,265 pounds of Klozur® SP and 21,600 pounds (2,009 gallons) of 25% NaOH were mixed into the soil excavated from the former Building C impacted area.

Based on the 2015 and 2017 soil boring sample data, identified soil with PCE impacts exceeding MTCA Method A cleanup levels within the alleyway west of former Building C was excavated in August 2018 to a depth of approximately 8 feet bgs. The excavation was not advanced below approximately 8 feet bgs due to dense glacial till and the presence of multiple underground utilities. Some groundwater accumulated in the bottom of the excavation. The final extents of the excavation measured approximately 60 feet north-south by 8 feet east-west and 8 feet deep. The excavated soil (approximately 140 cubic yards) was stockpiled on the former Building C area. GHD understands that confirmation soil samples were not collected from the alleyway remedial excavation or associated soil stockpile.

Prior to backfilling the alleyway area remedial excavation, the excavation contractor installed four short horizontal 4-inch-diameter Schedule 40 PVC slotted pipe runs spaced approximately 10 to 15 feet apart in the bottom of the excavation (approximately 8 feet bgs). The pipe runs were oriented southwest to northeast and stubbed to the surface using blank 4-inch Schedule 40 PVC pipe with 45-degree elbows. The stub up and the distal end of each pipe run were capped with PVC slip caps. Each horizontal slotted pipe run was bedded in washed drain rock and covered with filter fabric. The pipe runs were stubbed to the ground surface on the east side of the excavation, proximity to the former Building C remedial excavation horizontal pipe run stub-ups.

Following the installation of the horizontal slotted pipe runs, the excavation contractor backfilled the excavation in approximately 2-foot lifts using the stockpiled soil. Approximately 345 pounds of Klozur® SP were placed on the surface of each soil lift and mixed into the soil using a hydraulic auger head mounted on a small excavator. Approximately 675 pounds (63 gallons) of a 25% NaOH solution were added to each treated soil lift and mixed into the soil using the auger head. A total of approximately 1,377 pounds of Klozur® SP and 2,700 pounds (approximately 250 gallons) of 25% NaOH were mixed into the soil excavated from the alleyway impacted area. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

2018 Site Investigation: In November 2018, GHD observed the advancement of four soil borings (MW-6A, MW-6B, MW-7A, and MW-7B) to depths ranging from approximately 15 to 35.5 feet bgs. Borings MW-6A and MW-6B were advanced in the former Building C footprint north of the former Cascade Cleaners tenant space, and borings MW-7A and MW-7B were advanced in the alleyway south of the former Building C footprint and existing groundwater monitoring well MW-2. Soil samples collected from borings MW-6B and MW-7B at depths ranging from approximately 10 to 30 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. Soil samples were not collected from borings MW-6A and MW-7A for chemical analysis because borings MW-6B and MW-7B were directly adjacent. The soil samples collected from boring MW-7B at 25 and 30 feet bgs contained

PCE (7.4 and 5.8 mg/kg) and/or TCE (0.14 mg/kg) at concentrations exceeding the MTCA Method A cleanup levels.

Borings MW-6A & B and MW-7A & B were completed as groundwater monitoring wells with 2-inch diameter Schedule 40 PVC well casing and well screens with 0.020-inch machine-cut slots. Wells MW-6A and MW-7A were advanced to approximately 15 feet bgs and screened from approximately 5 to 15 feet bgs. MW-6B and MW-7B were advanced to approximately 35 feet bgs and screened from approximately 24.5 to 34.5 feet bgs. Wells MW-6A and MW-7A were screened in the shallow water-bearing zone and wells MW-6B and MW-7B were screened in the intermediate water-bearing zone. Measured depth to groundwater in monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B in December 2018 ranged from 2.20 feet below the top of the well casing (TOC) at MW-6A to 64.46 feet below TOC at MW-1. The TOC elevations at wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B were surveyed relative to an onsite sewer manhole cover in November 2018. The TOC elevation and measured depth to groundwater at wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B were used to calculate the groundwater elevation above mean sea level (amsl) at each well. Groundwater elevations ranged from 442.40 feet amsl at MW-6A to 379.29 feet amsl at MW-1. Based on the groundwater elevation at wells MW-5, MW-6A, and MW-7A, the shallow groundwater gradient was toward the southeast at a horizontal gradient of approximately 0.045 feet per foot (ft/ft). Based on the groundwater elevation at wells MW-2, MW-3, MW-6B, and MW-7B, the intermediate groundwater gradient was toward the southeast at a horizontal gradient of approximately 0.05 ft/ft.

Groundwater samples collected from monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, and MW-7A & B in December 2018 were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. The groundwater samples collected from monitoring wells MW-2, MW-7A, and MW-7B contained PCE (2,300 to 13,000 µg/L), TCE (110 to 400 µg/L), cis-DCE (190 to 860 µg/L), and VC (14 to 180 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B cleanup levels. Two sub-slab Vapor Pins™ (SSG-1 and SSG-2) were installed in the northwest corner of Building B and the northeast corner of Building D, respectively, in November 2018. Soil vapor samples collected in tedlar bags from SSG-1 and SSG-2 were analyzed for VOCs (PCE, TCE, cis-DCE, trans-DCE, DCE, and VC) by EPA Method 8260. All results were below the laboratory MRLs. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup or screening levels. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

May 2019 Groundwater Monitoring: In May 2019, GHD contracted Blaine Tech Services (BTS) to perform groundwater monitoring and sampling at the Site. Measured depth to groundwater in monitoring wells MW-2, MW-3, MW-5, MW-6A & B, MW-7A & B, and the former Building C middle horizontal treatment pipe (Excav Pipe) ranged from 3.73 feet below TOC at MW-5 to 15.08 feet below TOC at MW-7B. The TOC elevation and measured depth to groundwater at wells MW-2, MW-3, MW-5, MW-6A & B, and MW-7A & B were used to calculate the groundwater elevation at each well. Groundwater elevations ranged from 441.13 feet amsl at MW-5 to 428.28 feet amsl at MW-7B. Based on the groundwater elevation at wells MW-5, MW-6A, and MW-7A, the shallow groundwater gradient was toward the southwest at a horizontal gradient of approximately 0.05 ft/ft. Based on the groundwater elevation at wells MW-2, MW-3, MW-6B, and MW-7B, the intermediate groundwater gradient was toward the southeast at horizontal gradients of approximately 0.048 ft/ft.

Groundwater samples collected from monitoring wells MW-2, MW-7A, and MW-7B, and from Excav Pipe in May 2018 were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. The groundwater samples collected from MW-2, MW-7A, MW-7B, and Excav Pipe contained PCE (1,400 to 23,000 µg/L), TCE (68 to 3,700 µg/L), cis-DCE (69 to 1,000 µg/L), and VC (0.46 to 210 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B cleanup levels. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup levels. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

2019 Interim Remedial Action: In November 2019, GHD observed groundwater treatment injections into the former Building C and alleyway horizontal slotted pipe runs. Approximately 1,595 pounds of Klozur®

SP sodium persulfate remedial treatment compound mixed with 241 gallons of potable water and 247 gallons (2,638 pounds) of 25% NaOH activator were injected into the nine horizontal slotted treatment pipe runs (TW-1A through TW-4A, TW-5, and TW-1B through TW-4B) in 20 batches of 25 to 30 gallons each.

Following the completion of the injections, approximately 496 pounds of Klozur® SP and 161 gallons (1,725 pounds) of NaOH were placed into a shallow L-shaped trench excavated along the edge of the southwest corner of the former Building C area in November 2019. The trench measured approximately 45-feet long, 1.5-feet wide, and 2 feet deep. Excavated soil was placed back into the trench following the remedial treatment application.

In December 2019, approximately 551 pounds of Klozur® SP and 129 gallons (1,380 pounds) of NaOH were placed into a second shallow trench completed on the east side of the 4-inch horizontal slotted pipe stub-ups along the west side of the former Building C remedial treatment excavation. The trench measured approximately 30-feet long, 1.5-feet wide, and 2 feet deep. Soil excavated from the trench was placed back into the trench and compacted following the remedial treatment application. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

2020 Site Investigation: In August 2020, GHD observed the advancement of two soil borings (MW-8A and MW-8B) to depths of approximately 15 and 36.5 feet bgs, respectively, in the alleyway south of existing groundwater monitoring well MW-7A & B. Soil samples collected from boring MW-8B at depths ranging from approximately 5 to 35 feet bgs were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. Soil samples were not collected from boring MW-8A for chemical analysis because boring MW-8B was directly adjacent. Soil sample results from MW-8B were below the laboratory MRLs.

Borings MW-8A & B were completed as groundwater monitoring wells with 2-inch diameter Schedule 40 PVC well casing and well screens with 0.010-inch machine-cut slots. Well MW-8A was completed to approximately 15 feet bgs and screened in the shallow water-bearing zone from approximately 5 to 15 feet bgs. MW-8B was completed to approximately 35 feet bgs and screened in the intermediate water-bearing zone from approximately 25 to 35 feet bgs. Measured depth to groundwater in monitoring wells MW-1 through MW-3, MW-5, MW-6A & B, MW-7A & B, and MW-8A & B in August 2018 ranged from 4.72 feet below TOC at MW-6A to 63.79 feet below TOC at MW-1. The TOC elevations at wells MW-8A & B were surveyed relative to wells MW-7A & B in August 2018. The TOC elevation and measured depth to groundwater at wells MW-1 through MW-3, MW-5, MW-6A & B, MW-7A & B, and MW-8A & B were used to calculate the groundwater elevation at each well. Groundwater elevations ranged from 439.88 feet amsl at MW-6A to 380.17 feet amsl at MW-1. Based on the groundwater elevation at wells MW-5, MW-6A, MW-7A, and MW-8A, the shallow groundwater gradient was toward the southeast at a horizontal gradient of approximately 0.11 ft/ft. Based on the groundwater elevation at wells MW-2, MW-3, MW-6B, MW-7B, and MW-8B, the intermediate groundwater gradient was toward the southeast and south at horizontal gradients of approximately 0.07 to 0.048 ft/ft.

Groundwater samples collected from MW-2, MW-7A, MW-7B, MW-8A, MW-8B, and Excav Pipe in August 2018 were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. The groundwater samples collected from MW-2, MW-7A, MW-7B, MW-8A, and Excav Pipe contained PCE (29 to 16,000 µg/L), TCE (19 to 14,000 µg/L), cis-DCE (79 to 1,000 µg/L), and VC (0.59 to 150 µg/L) at concentrations exceeding their respective MTCA Method A or MTCA Method B cleanup levels.

Soil vapor samples were collected from sub-slab Vapor Pins™ SSG-1 and SSG-2 in September 2020. Soil vapor samples collected in tedlar bags from SSG-1 and SSG-2 were analyzed for VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method 8260. PCE (330 µg/m³) was detected in sample SSG-1 collected from Building B at a concentration exceeding the MTCA Method B screening level. No other concentrations exceeded the MTCA Method A or MTCA Method B cleanup or screening levels. More information can be found in GHD's *Remedial Investigation Work Plan* dated May 31, 2022.

2021 Phase I Site Assessment: In September 2021, GeoEngineers completed a Phase I ESA of the Property on behalf of Impact Public Schools. More information can be found in GeoEngineer's *Phase I Environmental Site Assessment* dated September 17, 2021.

2021 Focused Phase II Environmental Site Assessment: In September 2021, GeoEngineers advanced six soil borings (GEI-1 through GEI-6) in the alleyway north of Building A downgradient from the former Cascade Cleaner tenant space to depths ranging from approximately 10 to 15 feet bgs. Groundwater was not encountered in the borings. Soil samples collected from the borings at depths ranging from approximately 3 to 15 feet bgs were analyzed for halogenated VOCs (PCE, TCE, cis-DCE, trans-DCE, DCE, and VC) by EPA Method 8260D, total petroleum hydrocarbons (TPH) in the gasoline range (TPHg) by Northwest Method NWTPH-Gx, TPH in the diesel range (TPHd) and oil range (TPHo) by Northwest Method NWTPH-Dx, and Resource Conservation and Recovery Act (RCRA) 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by EPA Method 6020B. Three sub-slab soil vapor samples (SV-1 through SV-3) were collected from the northern portion of Building A. The sub-slab soil vapor samples were collected in Summa canisters and analyzed for halogenated VOCs, including PCE, TCE, cis-DCE, trans-DCE, DCE, and VC, by EPA Method TO-15, and for helium tracer gas by American Society of Testing and Materials (ASTM) Method D1946. Helium was not detected in the samples. Detected concentrations in soil and soil vapor samples were below the MTCA Method A or MTCA Method B cleanup or screening levels. More information can be found in GeoEngineer's *Focused Phase II Environmental Assessment* report dated November 10, 2021.

Environmental Documents List: Former Cascade Cleaners, 16912 - 116th Avenue SE, Renton, Washington 98058

Title	Author	Date	Submitted to Ecology	
			Y/N	Date
Limited Groundwater Sampling Results	ZZA-Terracon	1/23/2008	Y	
Phase I Environmental Site Assessment	Partner Engineering and Science, Inc. (Partner)	5/22/2015	N	
Phase II Subsurface Investigation Report	Partner	7/6/2015	Y	
Additional Subsurface Investigation Report	Partner	11/24/2015	Y	
Focused Phase II Environmental Site Assessment	GeoEngineers	11/10/2021	N	

Appendix B

**Legal Description of Property, Zoning and
Utility Maps, and Groundwater Management
Area Map**

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[Area Report](#)
[Print Property Detail](#)


PARCEL DATA

Parcel	282305-9009
Name	MBA CASCADE PLAZA LLC
Site Address	16950 116TH AVE SE 98058
Geo Area	75-65
Spec Area	
Property Name	CASCADE VILLAGE

Jurisdiction	RENTON
Levy Code	2128
Property Type	C
Plat Block / Building Number	
Plat Lot / Unit Number	
Quarter-Section-Township-Range	SW-28-23-5

Legal Description

POR OF NW 1/4 OF SW 1/4 - BEG SW COR OF SD SUBD TH N 01-46-57 E 330 FT TO TPOB TH S 88-07-33 E TAP 115.62 W OF E LN OF SD SUBD TH N 42-36-48 W ALG E LN OF BONNEVILLE POWER LN ESMT TAP 11.53 FT S OF SLY MGN OF SE 168TH ST TH S 06-32-55 E 333.17 FT TH S 47-23-12 W 153.86 FT TH N 42-36-48 W TAP 261.05 FT S OF NW COR OF SD SUBD TH S TO TPOB LESS CO RD SUBJ TO BONNEVILLE POWER LN ESMT
Plat Block:
Plat Lot:

LAND DATA

Highest & Best Use As If Vacant	RETAIL/WHOLESALE
Highest & Best Use As Improved	PRESENT USE
Present Use	Shopping Ctr(Nghbrhood)
Land SqFt	593,653
Acres	13.63

Percentage Unusable	
Unbuildable	NO
Restrictive Size Shape	NO
Zoning	CA
Water	WATER DISTRICT
Sewer/Septic	PUBLIC
Road Access	PUBLIC
Parking	ADEQUATE
Street Surface	PAVED

Views

Rainier	
Territorial	
Olympics	
Cascades	
Seattle Skyline	
Puget Sound	
Lake Washington	
Lake Sammamish	
Lake/River/Creek	
Other View	

Waterfront

Waterfront Location	
Waterfront Footage	0
Lot Depth Factor	0
Waterfront Bank	
Tide/Shore	
Waterfront Restricted Access	
Waterfront Access Rights	NO
Poor Quality	NO
Proximity Influence	NO

Designations

Historic Site	
Current Use	(none)
Nbr Bldg Sites	
Adjacent to Golf Fairway	NO
Adjacent to Greenbelt	NO
Other Designation	NO
Deed Restrictions	NO
Development Rights Purchased	NO
Easements	NO
Native Growth Protection Easement	NO
DNR Lease	NO

Nuisances

Topography	
Traffic Noise	
Airport Noise	
Power Lines	YES
Other Nuisances	NO

Problems

Water Problems	NO
Transportation Concurrency	NO
Other Problems	NO

Environmental

Environmental	NO
---------------	----

Environmental Type	Information Source	Delineation study	Percentage Affected
Contamination	OTHER		0

BUILDING

Building Number	4
Building Description	BUILDING C
Number Of Buildings Aggregated	1

Picture of Building 4

Predominant Use	LINE RETAIL (860)
Shape	Rect or Slight Irreg
Construction Class	MASONRY
Building Quality	LOW COST
Stories	1
Building Gross Sq Ft	5,778
Building Net Sq Ft	5,778
Year Built	1960
Eff. Year	1983
Percentage Complete	100
Heating System	HEAT PUMP
Sprinklers	Yes
Elevators	
1 2 3 4 5	



Section(s) Of Building Number: 4

Section Number	Section Use	Description	Stories	Height	Floor Number	Gross Sq Ft	Net Sq Ft
1	LINE RETAIL (860)		1	9	1	5,778	5,778

TAX ROLL HISTORY

Account	Valued Year	Tax Year	Omit Year	Levy Code	Appraised Land Value (\$)	Appraised Imps Value (\$)	Appraised Total Value (\$)	New Dollars (\$)	Taxable Land Value (\$)	Taxable Imps Value (\$)	Taxable Total Value (\$)	Tax Value Reason
282305900908	2021	2022		2128	8,063,500	1,000	8,064,500	0	8,063,500	1,000	8,064,500	
282305900908	2020	2021		2128	8,578,200	1,000	8,579,200	0	8,578,200	1,000	8,579,200	
282305900908	2019	2020		2128	5,574,000	1,000	5,575,000	0	5,574,000	1,000	5,575,000	
282305900908	2018	2019		2128	5,574,000	1,000	5,575,000	0	5,574,000	1,000	5,575,000	
282305900908	2017	2018		2128	7,569,000	1,000	7,570,000	0	7,569,000	1,000	7,570,000	
282305900908	2016	2017		2128	7,420,600	1,000	7,421,600	0	7,420,600	1,000	7,421,600	
282305900908	2015	2016		2128	7,272,200	1,000	7,273,200	0	7,272,200	1,000	7,273,200	
282305900908	2014	2015		2128	7,123,800	1,000	7,124,800	0	7,123,800	1,000	7,124,800	
282305900908	2013	2014		2128	7,123,800	1,000	7,124,800	0	7,123,800	1,000	7,124,800	
282305900908	2012	2013		2128	7,123,800	1,000	7,124,800	0	7,123,800	1,000	7,124,800	
282305900908	2011	2012		2128	6,529,000	1,000	6,530,000	0	6,529,000	1,000	6,530,000	
282305900908	2010	2011		2128	7,717,400	1,000	7,718,400	0	7,717,400	1,000	7,718,400	
282305900908	2009	2010		2128	7,717,400	1,000	7,718,400	0	7,717,400	1,000	7,718,400	
282305900908	2008	2009		2128	7,717,400	1,000	7,718,400	0	7,717,400	1,000	7,718,400	
282305900908	2007	2008		4250	4,749,200	2,025,900	6,775,100	0	4,749,200	2,025,900	6,775,100	
282305900908	2006	2007		4250	4,155,500	4,513,800	8,669,300	0	4,155,500	4,513,800	8,669,300	
282305900908	2005	2006		4250	3,561,900	5,102,800	8,664,700	0	3,561,900	5,102,800	8,664,700	
282305900908	2004	2005		4250	2,968,200	3,937,800	6,906,000	0	2,968,200	3,937,800	6,906,000	
282305900908	2003	2004		4250	2,968,200	4,241,100	7,209,300	0	2,968,200	4,241,100	7,209,300	
282305900908	2002	2003		4250	2,968,200	4,241,100	7,209,300	0	2,968,200	4,241,100	7,209,300	
282305900908	2001	2002		4250	2,057,000	4,659,700	6,716,700	0	2,057,000	4,659,700	6,716,700	
282305900908	2000	2001		4250	2,057,000	4,659,700	6,716,700	0	2,057,000	4,659,700	6,716,700	
282305900908	1999	2000		4250	2,057,000	4,013,400	6,070,400	0	2,057,000	4,013,400	6,070,400	
282305900908	1998	1999		4250	1,760,000	4,310,400	6,070,400	0	1,760,000	4,310,400	6,070,400	
282305900908	1997	1998		4250	0	0	0	0	1,760,000	4,310,400	6,070,400	
282305900908	1996	1997		4250	0	0	0	0	1,760,000	4,310,400	6,070,400	
282305900908	1994	1995		4250	0	0	0	0	1,760,000	4,310,400	6,070,400	
282305900908	1992	1993		4250	0	0	0	0	1,484,000	4,586,400	6,070,400	
282305900908	1990	1991		4250	0	0	0	0	1,484,000	4,406,000	5,890,000	
282305900908	1988	1989		4250	0	0	0	0	1,335,700	3,196,900	4,532,600	
282305900908	1987	1988		4250	0	0	0	0	971,800	3,196,900	4,168,700	
282305900908	1986	1987		4250	0	0	0	0	971,800	3,023,700	3,995,500	
282305900908	1985	1986		4250	0	0	0	0	971,800	1,666,000	2,637,800	
282305900908	1984	1985		4250	0	0	0	0	246,900	0	246,900	
282305900908	1982	1983		4250	0	0	0	0	197,400	0	197,400	

SALES HISTORY

Excise Number	Recording Number	Document Date	Sale Price	Seller Name	Buyer Name	Instrument	Sale Reason
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<u>2334117</u>	<u>20080226000615</u>	1/31/2008	\$0.00	BAS AT-I INC	MBA CASCADE PLAZA L L C	Special Warranty Deed	Trade
<u>2302698</u>	<u>20070803001099</u>	8/3/2007	\$0.00	CASCADE INVESTORS	MBA CASCADE PLAZA L L C+BAS AT-1 INC+MBA CASCADE HOLDING L L C	Quit Claim Deed	Other
<u>2302694</u>	<u>20070803001098</u>	8/3/2007	\$7,700,000.00	CASCADE INVESTORS	MBA CASCADE PLAZA L L C+BAS AT-1 INC+MBA CASCADE HOLDING L L C	Special Warranty Deed	Tenancy Partition
782166	<u>198407030808</u>	6/29/1984	\$2,350,000.00	MASTERS ROBERT R+CAROL ANN	CASCADE INVESTORS	Warranty Deed	None

REVIEW HISTORY

Tax Year	Review Number	Review Type	Appealed Value	Hearing Date	Settlement Value	Decision	Status
2022	2101528	Local Appeal	\$8,064,500	1/3/1900	\$8,064,500	SUSTAIN	Completed
2021	98271	State Appeal	\$8,579,200	1/1/1900	\$0		Active
2021	2000610	Local Appeal	\$8,579,200	1/2/1900	\$8,579,200	SUSTAIN	Completed
2020	98043	State Appeal	\$5,575,000	1/1/1900	\$0		Active
2020	1904745	Local Appeal	\$8,579,200	1/2/1900	\$5,575,000	REVISE	Completed
2019	1800948	Local Appeal	\$8,074,600	1/2/1900	\$5,575,000	REVISE	Completed
2017	92721	State Appeal	\$7,421,600	6/5/2019	\$7,421,600	SUSTAIN	Completed
2017	1600228	Local Appeal	\$7,421,600	1/1/1900	\$7,421,600	SUSTAIN	Completed
2016	91109	State Appeal	\$7,273,200	3/28/2017	\$0		Active
2016	1501395	Local Appeal	\$7,273,200	1/1/1900	\$7,273,200	SUSTAIN	Completed
2014	86108	State Appeal	\$7,124,800	3/28/2017	\$0		Active
2014	1300530	Local Appeal	\$7,124,800	1/1/1900	\$7,124,800	SUSTAIN	Completed
2013	84517	State Appeal	\$7,124,800	3/28/2017	\$0		Active
2013	1200999	Local Appeal	\$7,124,800	1/1/1900	\$7,124,800	SUSTAIN	Completed
2012	81255	State Appeal	\$6,530,000	3/28/2017	\$0		Active
2012	1101518	Local Appeal	\$7,124,800	1/1/1900	\$6,530,000	REVISE	Completed
2010	0900131	Local Appeal	\$7,718,400	1/1/1900	\$7,718,400	SUSTAIN	Completed
2009	0800717	Local Appeal	\$7,718,400	1/1/1900	\$7,718,400	SUSTAIN	Completed
2008	66672	State Appeal	\$6,775,100	1/1/1900	\$0	WITHDRAWN	Completed
2008	0700611	Local Appeal	\$8,876,600	1/1/1900	\$6,775,100	REVISE, ASSESSOR RECOMMENDED	Completed
2005	63224	State Appeal	\$7,624,700	6/5/2006	\$7,624,700	SUSTAIN	Completed
2005	0402150	Local Appeal	\$8,667,000	1/1/1900	\$7,624,700	REVISE, ASSESSOR RECOMMENDED	Completed
2003	0206075	Local Appeal	\$8,022,800	1/1/1900	\$0		Completed
1996	9501112	Local Appeal	\$6,070,400	1/1/1900	\$0		Completed

PERMIT HISTORY

Permit Number	Permit Description	Type	Issue Date	Permit Value	Issuing Jurisdiction	Reviewed Date
<u>S19004542</u>	INSTALL ONE NON-ILLUMINATED PERMANENT WALL SIGN FOR FOODIE CATERING,		10/11/2019	\$1,334	RENTON	7/8/2020
<u>S19003036</u>	INSTALL ONE NON-ILLUMINATED WALL SIGN FOR THE KINGDOM BARBER SHOP,		6/13/2019	\$2,545	RENTON	7/8/2020
<u>E18006418</u>	A (Nonresidential Alteration) project installing (Security system). Additional Info (). Work Site Location (),		11/20/2018	\$200	RENTON	5/10/2019

E18006184	A (Nonresidential Alteration) project installing (Security system). Additional Info (). Work Site Location (),		11/7/2018	\$299	RENTON	5/10/2019
E18005747	A (Nonresidential Alteration) project installing (Adding or Altering Branch Circuits). Additional Info (). Work Site Location (),		10/15/2018	\$3,000	RENTON	5/10/2019
P18004327	REPLACE WATER HEATER WASHING MACHINE BOX AND INSTALL SHAMPOO BOWL FOR KINGDOM BARBER SHOP,	Remodel	8/8/2018	\$5,225	RENTON	5/10/2019
E18000708	A (Nonresidential Alteration) project installing (Security system). Additional Info (). Work Site Location (),		2/9/2018	\$125	RENTON	7/5/2018
B17004318	DEMOLITION OF MBA CASCADE PLAZA BUILDING C - OWNER PERFORMING WORK - DISPOSE OF MATERIAL PER ASBESTOS ABATEMENT REPORT.,	Demolition	9/19/2017	\$15,000	RENTON	5/23/2019
E17002935	A (Nonresidential Alteration) project installing (Security system). Additional Info (). Work Site Location (),		6/21/2017	\$800	RENTON	8/16/2017
B110260	PARTIAL REPLACEMENT OF SHEETING AT VACANT CASCADE VILLAGE BUILDING / O.T.C. PER LM	Remodel	6/29/2011	\$2,000	RENTON	9/1/2011
B090239	Bowl Interior remodel.	Remodel	8/4/2009	\$300,000	RENTON	8/23/2010
B090245	Interior demolition for Hooters Restaurant TI	Remodel	7/2/2009	\$0	RENTON	8/11/2010
B03M0182		Accessory, New	2/6/2003	\$8,000	KING COUNTY	7/21/2005

HOME IMPROVEMENT EXEMPTION

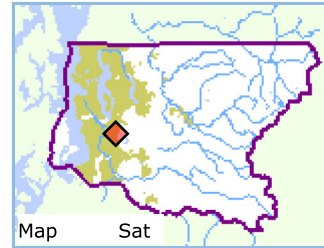
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King County Districts and Development Conditions for parcel 2823059009



Parcel number	2823059009	Drainage Basin	Soos Creek
Address	16950 116TH AVE SE	Watershed	Duwamish - Green River
Jurisdiction	Renton	WRIA	Duwamish-Green (9)
Zipcode	98058	PLSS	SW - 28 - 23 - 5
Kroll Map page	602	Latitude	47.45056
Thomas Guide page	656	Longitude	-122.18414



King County Electoral districts

Voting district	RNT 11-0738	Fire district	does not apply
King County Council district	District 5, Dave Upthegrove (206) 477-1005  	Water district	does not apply
Congressional district	9	Sewer district	does not apply
Legislative district	11	Water & Sewer district	Soos Creek Water and Sewer District
School district	Renton #403	Parks & Recreation district	does not apply
Seattle school board district	does not apply (not in Seattle)	Hospital district	Public Hospital District No. 1
District Court electoral district	Southeast	Rural library district	Rural King County Library System
Regional fire authority district	Renton Regional Fire Authority	Tribal Lands?	No

King County planning and [critical areas](#) designations*

King County zoning	NA, check with jurisdiction	Urban Unincorporated Status	does not apply
Development conditions	None	Rural town?	No
Comprehensive Plan Land Use Designation	does not apply	Water service planning area	Soos Creek Water and Sewer District
Urban Growth Area	Urban	Transportation Concurrency Management	does not apply
Community Service Area	does not apply	Forest Production district?	No
Community Planning Area	Soos Creek	Agricultural Production district?	No
Coal mine hazards?	Check with jurisdiction	Snoqualmie Valley watershed improvement district?	No
Erosion hazards?	Check with jurisdiction	Critical aquifer recharge area?	None mapped
Landslide hazards?	Check with jurisdiction	Wetlands at this parcel?	Check with jurisdiction
Seismic hazards?	Check with jurisdiction	Within the Tacoma Smelter Plume?	Under 20 ppm <small>Estimated Arsenic Concentration in Soil</small>
100-year flood plain?	None mapped	Shoreline management designation (% of parcel)	None mapped
Sea Level Rise Risk Area	Does not apply		

*Most of these designations apply only to unincorporated areas

This report was generated on 5/15/2022 5:44:01 PM
Contact us at giscenter@kingcounty.gov.
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MyBuildingPermit will be down for scheduled maintenance **Thursday, May 19th from 5:00pm to Friday, May 20th at 8:00am**. Thank you for your patience during this short outage. ✕

Permit/Application Details

Information for Permit #: B17004318

Project Name: MBA CASCADE PLAZA LLC BUILDING C

Jurisdiction: RENTON

Type: B ⓘ

Address: 16912 116th Ave SE

Parcel: 282305-9009

Status: Expired ⓘ

Applied Date: 9/14/2017

Issued Date: 9/19/2017

Finaled Date: 10/25/2018

Expiration Date: 9/19/2018

Description

DEMOLITION OF MBA CASCADE PLAZA BUILDING C - OWNER PERFORMING WORK - DISPOSE OF MATERIAL PER ASBESTOS ABATEMENT REPORT.

People




Reviews and Activities



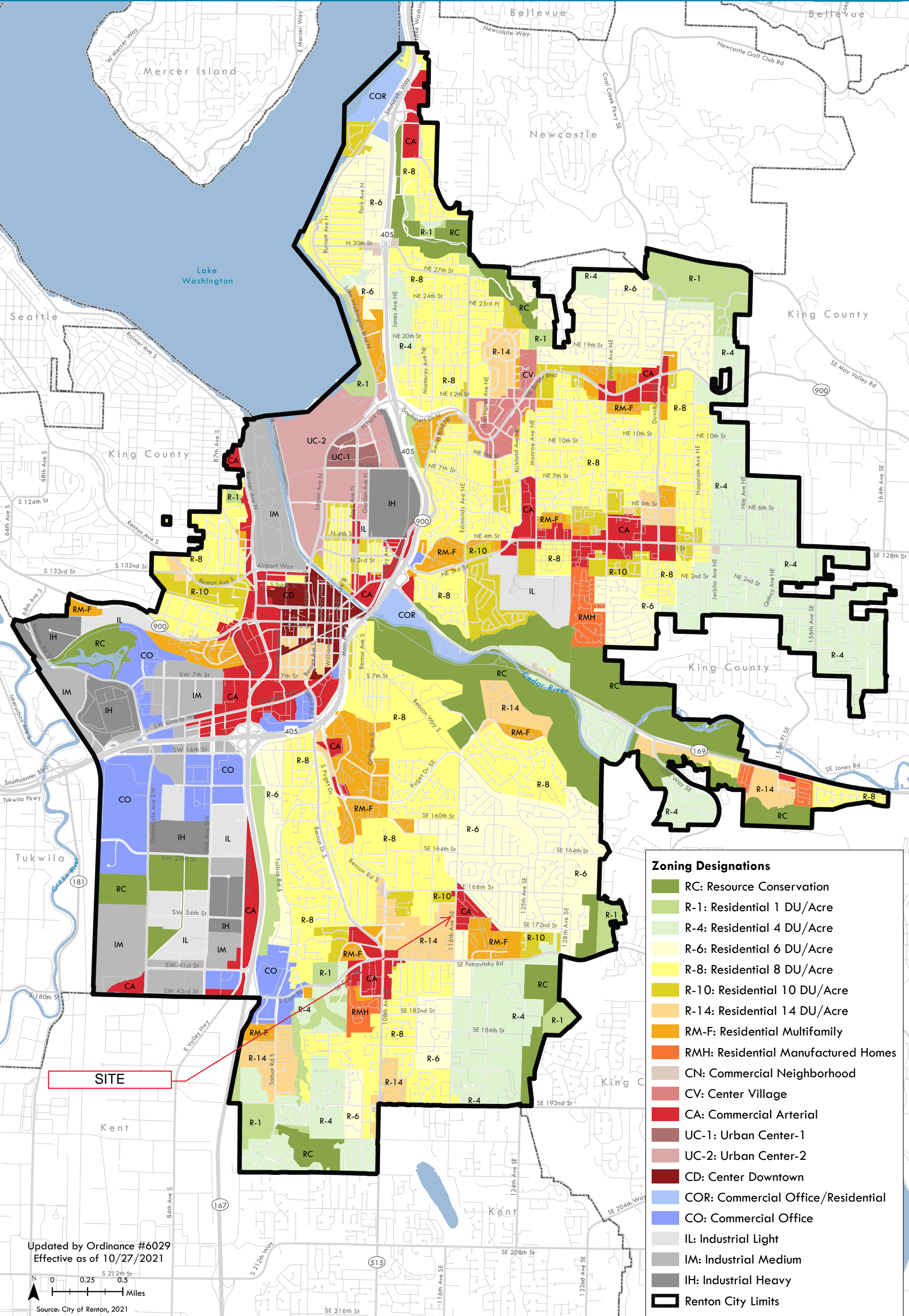
Conditions 

Inspections 

Fees 

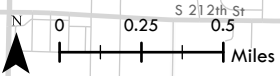
Other Permits On Same Parcel 

Zoning Map



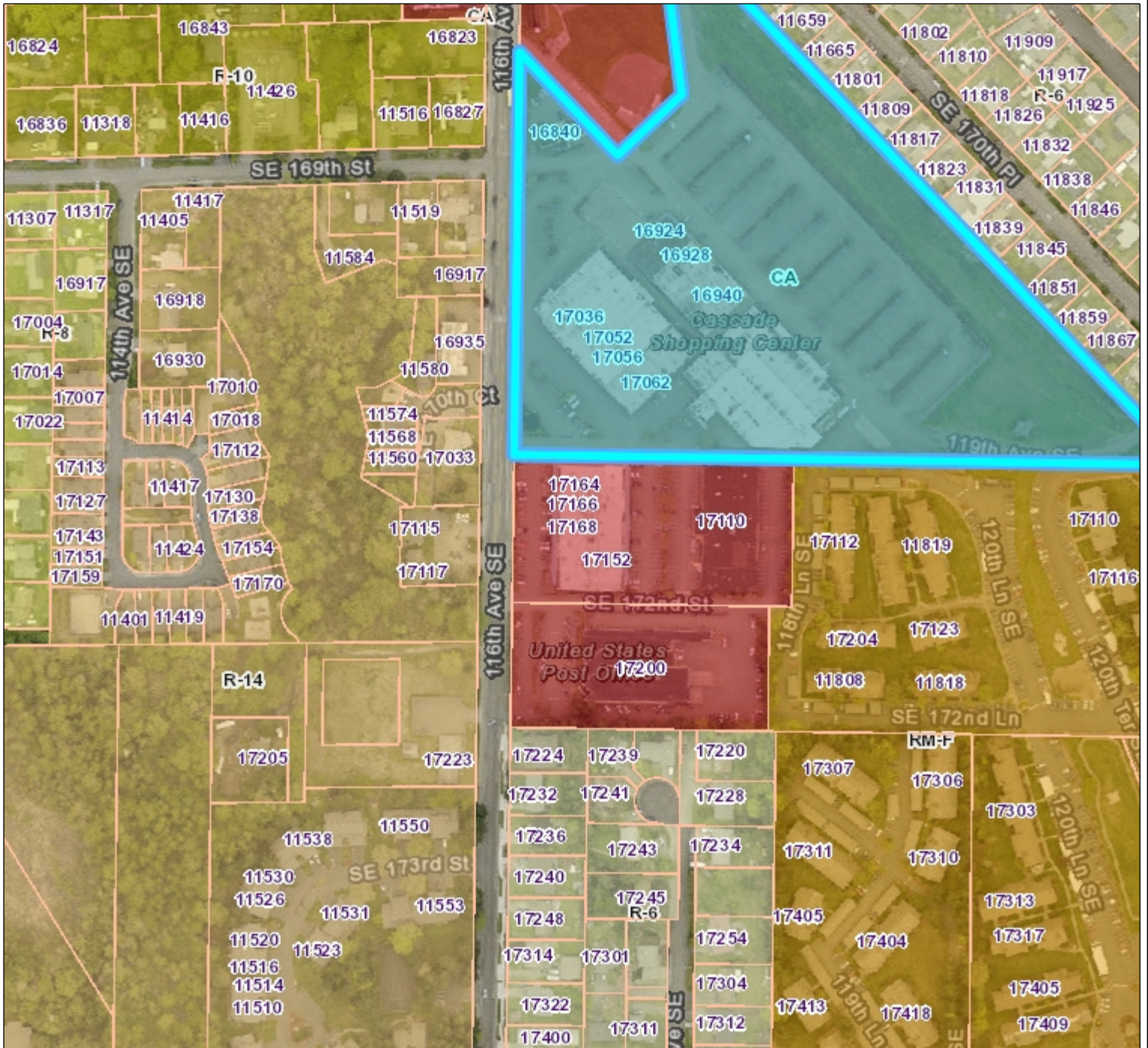
Zoning Designations	
	RC: Resource Conservation
	R-1: Residential 1 DU/Acre
	R-4: Residential 4 DU/Acre
	R-6: Residential 6 DU/Acre
	R-8: Residential 8 DU/Acre
	R-10: Residential 10 DU/Acre
	R-14: Residential 14 DU/Acre
	RM-F: Residential Multifamily
	RMH: Residential Manufactured Homes
	CN: Commercial Neighborhood
	CV: Center Village
	CA: Commercial Arterial
	UC-1: Urban Center-1
	UC-2: Urban Center-2
	CD: Center Downtown
	COR: Commercial Office/Residential
	CO: Commercial Office
	IL: Industrial Light
	IM: Industrial Medium
	IH: Industrial Heavy
	Renton City Limits

Updated by Ordinance #6029
Effective as of 10/27/2021



Source: City of Renton, 2021

City of Renton Print map Template



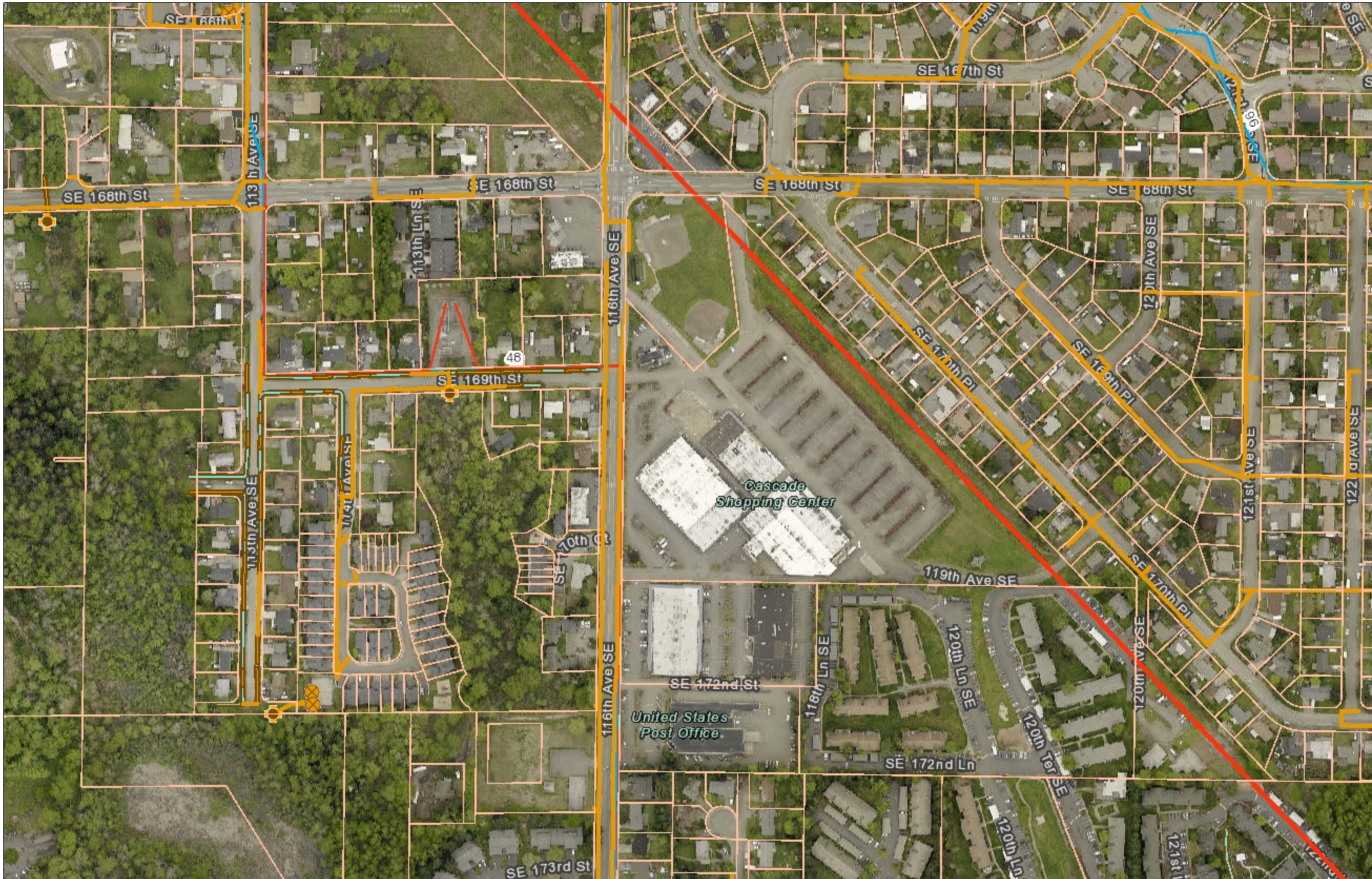
Notes
None

WGS_1984_Web_Mercator_Auxiliary_Sphere

Legend

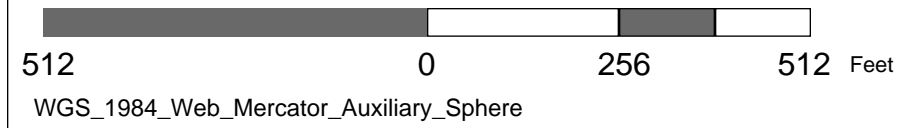
City and County Labels	RM-F
Addresses	RMH
Parcels	CN
City and County Boundary	CV
<all other values>	CA
Renton	UC-1
RC	UC-2
R-1	CD
R-4	COR
R-6	CO

City of Renton Print map Template



- Legend**
- Parcels
 - Control Structure
 - Discharge Point
 - Surface Water Main
 - Culvert
 - Open Drains
 - PSE 115kv
 - PSE 230kv
 - Fiber Cable**
 - Underground
 - Overhead
 - Conduit**
 - Duct Bank
 - Trench
 - Suspended
 - Streets**
 - Points of Interest**
 - Parks**
 - Waterbodies**
 - 2019.sid**
 - Red: Band_1
 - Green: Band_2
 - Blue: Band_3

Notes
None



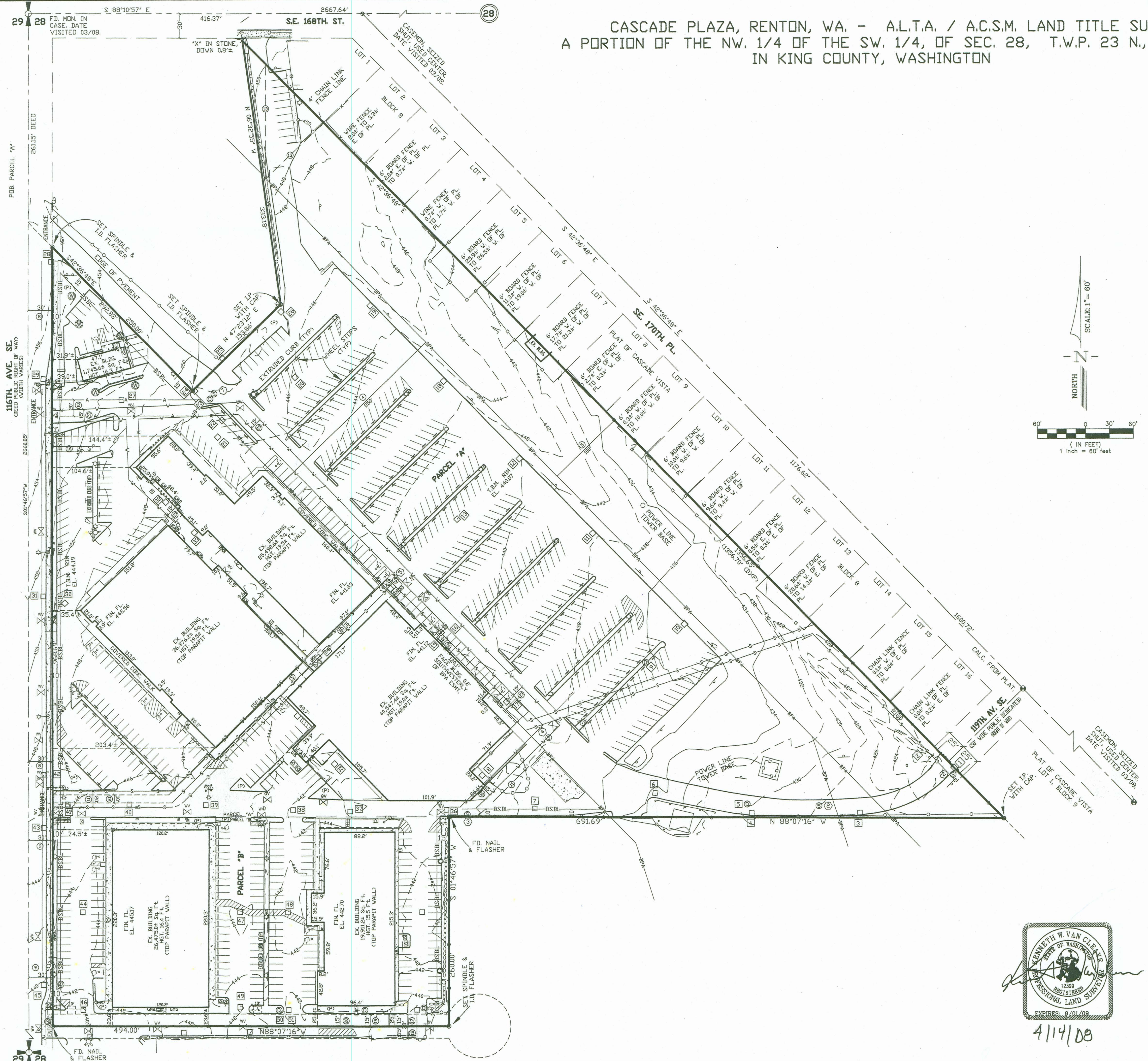
Information Technology - GIS
 RentonMapSupport@Rentonwa.gov
 05/15/2022

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



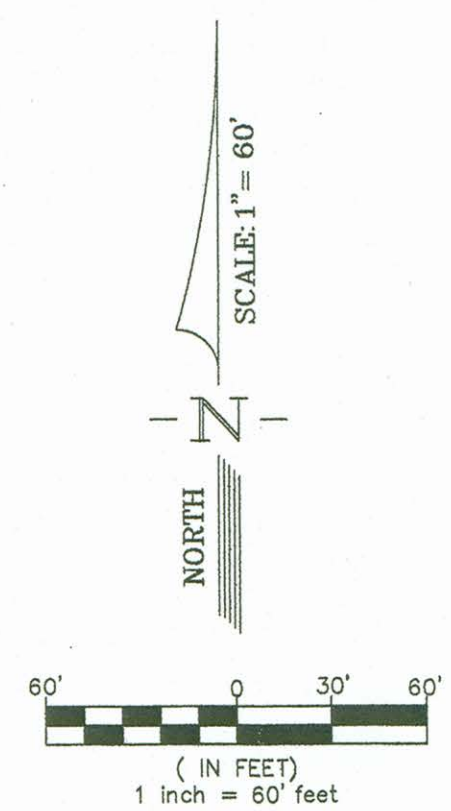
CASCADE PLAZA, RENTON, WA. - A.L.T.A. / A.C.S.M. LAND TITLE SURVEY
 A PORTION OF THE NW. 1/4 OF THE SW. 1/4, OF SEC. 28, T.W.P. 23 N., R. 5 E., W.M.,
 IN KING COUNTY, WASHINGTON



INSTRUMENT USED
 SOKKIA 3100 TOTAL STATION/
 FIELD TRAVERSE

BASIS OF BEARING
 CASCADE VISTA, ACCORDING TO
 THE PLAT THEREOF RECORDED
 IN VOL. 60 OF PLATS, PG. 34,
 IN KING COUNTY, WASHINGTON.

ELEVATION DATUM
 ASSUMED



LEGEND

- FOUND MONUMENT AS NOTED
- FOUND REBAR & I.D. TAG
- STORM SEWER CATCH BASIN
- ⊙ DRAINAGE MANHOLE
- ⊙ SANITARY SEWER MANHOLE
- ⊙ CLEAN OUT
- SIGNS
- MB MAIL BDX
- G.M.# GAS METER
- (P) IRRIGATED LANDSCAPING
- T.E. TRASH ENCLOSURE
- ☆ LIGHT STANDARD
- ⊠ POWER TRANSFORMER OR VAULT
- EM CONC. PAD WITH ELECTRICAL METERS
- ⊠ COMMUNICATION VAULT
- ⊠ COMMUNICATION RISER
- ⊠ CABLE TELEVISION RISER
- ⊠ EXISTING FIRE HYDRANT
- ⊠ WATER VALVE
- ⊠ WATER METER
- BOLLARD
- W — WATER EASEMENT
- P — POWER EASEMENT
- BPA — BONNVILLE POWER EASEMENT
- A — ACCESS EASEMENT
- S — SEWER EASEMENT
- BSBL — BUILDING SETBACK LINE

1. REVISED PER "E"MAIL 4/8/08 DWN. KV JR. CHK. KVV 4/9/08

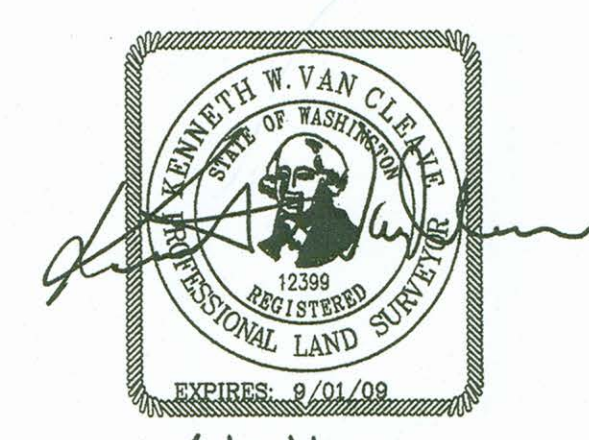
FOR CASCADE PLAZA LLC
 C/O ANDERSON & ASSOCIATES
 P.O. BOX 3821
 BELLEVUE, WASHINGTON 98009

CASCADE PLAZA
 17080 116TH AVE. SE.
 RENTON, WA.

VAN CLEAVE AND ASSOCIATES
 112 CANDLEWYCK DRIVE WEST
 LAKEWOOD, WASHINGTON 98499
 (253) 588-3821

DWN BY: K.W.V. Jr. CKD BY: K.V. APPRVD BY: K.V.
 DATE 3/08 DATE 3/08 DATE 3/08

F.B. NO. LL/EFB SHEET 2 OF 2
 DVG. NO. 07-1382



4/14/08

CASCADE PLAZA, RENTON, WA. - A.L.T.A. / A.C.S.M. LAND TITLE SURVEY
A PORTION OF THE NW. 1/4 OF THE SW. 1/4, OF SEC. 28, T.W.P. 23 N., R. 5 E., W.M.,
IN KING COUNTY, WASHINGTON

LEGAL DESCRIPTION

PARCEL A:

THAT PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 28, TOWNSHIP 23 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

COMMENCING AT THE WEST QUARTER CORNER OF SAID SECTION 28;
 THENCE SOUTH 1°45'57" WEST 261.051;
 THENCE SOUTH 42°36'48" EAST TO THE EASTERLY MARGIN OF 116TH AVENUE SOUTHEAST, AS CONVEYED TO KING COUNTY BY DEED RECORDED UNDER RECORDING NO. 5014915 AND THE TRUE POINT OF BEGINNING;
 THENCE CONTINUING SOUTH 42°36'48" EAST 250 FEET, MORE OR LESS, TO THE MOST SOUTHERLY CORNER OF A TRACT OF LAND CONVEYED TO CASCADE VISTA ATHLETIC CLUB, INC., BY DEED RECORDED JUNE 25, 1973 UNDER RECORDING NO. 7306250231;
 THENCE NORTH 47°23'12" EAST 153.86 FEET;
 THENCE NORTH 6°52'55" WEST 333.17 FEET TO THE NORTHEASTERLY MARGIN OF BONNEVILLE POWER ADMINISTRATION POLE LINE EASEMENT AND THE SOUTHWESTERLY LINE OF CASCADE VISTA, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE 34, IN KING COUNTY, WASHINGTON;
 THENCE SOUTH 42°36'48" EAST ALONG SAID MARGIN 1,360.70 FEET TO THE NORTH LINE OF THE SOUTH 330 FEET OF SAID NORTHWEST QUARTER;
 THENCE NORTH 88°07'32" WEST ALONG SAID NORTH LINE 1,215.69 FEET TO THE EASTERLY MARGIN OF 116TH AVENUE SOUTHEAST;
 THENCE NORTH 1°46'57" EAST ALONG SAID EAST MARGIN TO THE TRUE POINT OF BEGINNING.

PARCEL B:

LOT 1, KING COUNTY SHORT PLAT NO. 784087, RECORDED FEBRUARY 25, 1985 UNDER RECORDING NO. 8502250488, SAID SHORT PLAT BEING A PORTION OF THE SOUTHWEST QUARTER OF SECTION 28, TOWNSHIP 23 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON.

SURVEY REFERENCES AND NOTES

1. TITLE REPORT NO. NCS-332626-WA1, FIRST AMERICAN TITLE INSURANCE COMPANY, DATED JANUARY 2, 2008.
2. NO APPARENT CHANGES IN STREET RIGHT OF WAY OR RECENT CONSTRUCTION OR REPAIR TO SIDEWALKS OR STREET WERE OBSERVED AT THE TIME OF THE SURVEY.
3. NO APPARENT EVIDENCE OF A CEMETERY ON THE SITE WAS OBSERVED AT THE TIME OF SURVEY.
4. NO APPARENT SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL WAS OBSERVED AT THE TIME OF THE SURVEY.
5. PLAT OF CASCADE VISTA AS PER PLAT RECORDED IN VOLUME 60 OF PLATS, PAGE 34, RECORD OF SURVEY AS PER RECORDING NO. 8303169028, RECORD OF KING COUNTY, WASHINGTON.
6. SEE DRAWING ON SHEET 2.
7. STRUCTURE INFORMATION SEE SHEET 2.
8. REVISED PER EMAIL, SCHEDULE "B" NOTES REFLECT EARLY TITLE REPORT, NOT FURNISHED.

THE FOLLOWING NOTES ARE IN REFERENCE TO SCHEDULE "B" OF TITLE REPORT.

4. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER KING COUNTY SUPERIOR COURT CAUSE NO. 328, AND RECORDED UNDER RECORDING NO. 3150790, AND HAS BEEN PLOTTED.
5. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 3306273, AND RECONVEYED UNDER RECORDING NO. 7105180453, AND IS PLOTTED.
6. PROPERTY IS NOT SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 4329048, FALLS WITHIN RIGHT OF WAY FOR 116TH AVE. SE.
7. PROPERTY IS SUBJECT TO RESERVATIONS AND EXCEPTIONS, TERMS AND PROVISIONS AS PER RECORDING NO. 4795376, COVERS SITE AND OTHER PROPERTIES.
8. PROPERTY IS SUBJECT RIGHT TO MAKE NECESSARY SLOPES FOR CUTS OR FILLS UPON SAID PREMISES AS PER RECORDING NO. 5014915, CONTAINS INSUFFICIENT INFORMATION TO PLOT LOCATION.
9. PROPERTY IS SUBJECT RIGHT TO MAKE NECESSARY SLOPES FOR CUTS OR FILLS UPON SAID PREMISES AS PER RECORDING NO. 5014918, CONTAINS INSUFFICIENT INFORMATION TO PLOT LOCATION.
10. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER KING COUNTY SUPERIOR COURT CAUSE NO. 328, AND RECORDED UNDER RECORDING NO. 3150790, AND HAS BEEN PLOTTED.
11. PROPERTY IS SUBJECT TO EASEMENT, TERMS, AND CONDITIONS AS PER RECORDING NO. 5193188, AND RECONVEYED UNDER RECORDING NO. 6276929, AND IS PLOTTED.
12. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 5392869, AND IS PLOTTED.
13. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 5505408, DOCUMENT CAN NOT BE READ, AND IS PLOTTED.
14. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 6697607, LIMITS OF INGRESS, EGRESS AND PARKING AREA PLOTTED, PARTY WALL DESCRIPTIONS PORTION OF DOCUMENT NOT CLEAR ENOUGH TO READ.
15. NONE SURVEY ITEM
16. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 7509120427, AND IS PLOTTED.
17. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8305170667, AND IS PLOTTED.
18. PROPERTY IS SUBJECT TO RESTRICTIONS, CONDITIONS, DEDICATIONS, NOTES, EASEMENTS, AND PROVISIONS, IF ANY AS NOTED ON THE FACE OF SHORT PLAT 784087 RECORDED FEBRUARY 25, 1985 UNDER RECORDING NO. 8502250488, RECORDS OF KING COUNTY, WA.
19. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8510150425, AND IS PLOTTED.
20. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8511040599, AND IS PLOTTED.
21. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8508040476, EASEMENT IS AS CONSTRUCTED, INSUFFICIENT INFORMATION TO PLOT EXACT LOCATION.
22. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8609050740, NOT PLOTTED, POINT OF BEGINNING CAN NOT BE ESTABLISHED FROM DOCUMENT.
23. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8609050745, AND IS PLOTTED.
24. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8610060630, EASEMENT IS AS CONSTRUCTED, INSUFFICIENT INFORMATION TO PLOT EXACT LOCATION.
27. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 1999110001220, AND IS PLOTTED.
28. PROPERTY IS SUBJECT TO EASEMENT, TERMS AND CONDITIONS AS PER RECORDING NO. 8608040476, DOCUMENT CONTAINS INSUFFICIENT INFORMATION TO PLOT LOCATION.

CURRENT ZONING

ZONING "CA", COMMERCIAL ARTERIAL
 BUILDING SETBACKS: FRONT AND SIDE 10', REAR YARD 15'
 BUILDING HEIGHT: 50 FT. MAX.
 MAXIMUM LOT COVERAGE FOR BUILDINGS: 65%
 REQUIRED PARKING: 0.4 PER 100 SQ. FT. NET FLOOR AREA &
 0.5 PER 100 SQ. FT. NET FLOOR AREA MAX.
 REQUIRED 604 MIN. 755 MAX.
 EXISTING PARKING: 680 REGULAR - 19 HANDICAP 699 TOTAL STALLS

SITE ADDRESS

PARCEL "A" 17060 116TH AVE. SE. RENTON, WA. 98106
 PARCEL "B" 17178 116TH AVE. SE. RENTON, WA. 98106

SITE AREA

PARCELS "A" 593,090.9± Sq. Ft. 13.6± ACRES
 PARCELS "B" 128,440.0± Sq. Ft. 3.0± ACRES

DRAINAGE STRUCTURE INFORMATION

No.	TYPE	RIM	INVERT EL.			No.	TYPE	RIM	INVERT EL.		
1	BASIN II	424.65	NE. 420.50 18'	SW. 420.70 18'	NW. 421.13 18'	29	BASIN I	454.72	N. 452.29	S. 452.29	
2	OUTFALL		SE. 422.48 18'			30	BASIN I	449.19	N. 445.54	S. 445.07	
3	BASIN II	426.50	W. 421.55 18'	E. 421.55 18'		31	BASIN I	450.59	N. 447.89	S. 447.89	
4	BASIN II	429.57	NW. 425.01 12'	W. 425.07 18'	E. 425.07 18'	32	BASIN	447.04	S. 446.09 6'		
5	MANHOLE	430.07	S. 424.17 12'	N. 423.95 30'	FLOW RESTRICT.	33	BASIN I	446.54	N. 445.09 6'	S. 445.09 6'	
6	BASIN II	433.73	W. 429.21 18'	E. 429.11 18'		34	BASIN I	440.43	E. 437.78 12'	N. 438.18 6'	
7	BASIN	437.16	W. 433.43 12'	E. 433.13 12'	NW. 433.23 6'	35	BASIN I	436.35	SUMP PUMP		
8	BASIN	436.60	SE. 434.18 6'			36	BASIN I	439.63	E. 436.43 12'	W. 436.43 12'	
9	MANHOLE	436.09	S. 424.54 30'	N. 424.69 12'	E. 424.89 12'	37	BASIN I	439.37	E. 437.27 12'	W. 437.42 12'	
10	BASIN I	434.72	W. 432.54 12'			38	BASIN I	441.68	E. 439.18 12'	W. 439.28 12'	
11	BASIN I	438.11	S. 434.29 15'	N. 434.30 15'		39	BASIN I	444.36	E. 440.76 12'	W. 440.86 12'	
12	BASIN I	440.07	S. 436.17 15'	N. 436.25 12'	W. 436.35 15'	40	BASIN I	444.32	E. 441.26 12'	W. 441.26 12'	
13	BASIN I	440.90	E. 436.86 15'	W. 436.86 12'		41	BASIN I	445.92	E. 441.99 12'	N. 443.09 12'	
14	BASIN I	440.49	E. 437.49 12'	W. 437.49 12'		42	BASIN	446.60	N. 444.00	S. 444.00	
15	BASIN I	440.32	N. 436.74 12'	S. 436.74	E. 437.12 6'	43	BASIN	445.24	N. 442.54	S. 442.39	
16	BASIN I	440.14	W. 436.94 6'			44	BASIN I	443.08	S. 439.38 6'		
17	BASIN I	439.17	N. 435.65 6'			45	BASIN	439.54	N. 436.39	S. 436.34	
18	BASIN I	442.53	N. 439.17 12'	S. 439.07 12'		46	BASIN II	439.89	N. 436.74 6'	W. FLOW RESTRICTOR	
19	BASIN I	444.51	S. 441.80 12'	N. 441.58 12'	W. 441.49 12'	47	BASIN I	443.44	S. 440.21 8'		
20	BASIN I	445.81	E. 442.93 12'	W. 442.96 12'		48	BASIN I	441.04	S. 439.35 6'		
21	BASIN I	446.50	N. 445.22 6'			49	BASIN I	441.91	N. 438.61 8'	E. 438.46 12'	
22	BASIN I	446.98	W. 444.98 6'	S. 444.10 8'	E. 444.04 12'	50	MANHOLE	442.60	W. 437.30 12'	E. 437.30 12'	E. 428.50 36'
23	MANHOLE	447.55	442.45 BOT.			51	BASIN I	441.83	N. 439.65 6'	W. 437.73 12'	
24	BASIN I	447.69	S. 445.43			52	MANHOLE	441.37	W. 428.42 36'	E. 428.42 36'	
25	BASIN I	448.33	N. 447.13	E. 447.13		53	BASIN I	437.47	E. 435.2 6'		
26	BASIN II	446.60	SE. 444.97	W. 445.20	N. 445.00	54	MANHOLE	437.77	W. 428.22 36'	428.47 I.E. FLOW RESTRICTOR	
27	BASIN I	450.61	S. 447.29			55	BASIN I	440.51	S. 437.89 6'		
28	BASIN I	456.10	S. 453.76								

SANITARY SEWER INFORMATION

No.	TYPE	RIM	INVERT EL.		
1	MANHOLE	424.90	NE. 419.30 12'	SW. 419.40 8'	NW. 419.35 8'
2	MANHOLE	427.95	E. 420.85 8'	W. 420.95 8'	
3	MANHOLE	439.52	E. 428.02 8'	W. 428.05 6'	NW. 428.06 6'
4	MANHOLE	438.22	SE. 426.27 8'	W. 426.32 6'	NW. 426.37 8'
5	MANHOLE	440.68	SE. 432.18 8'	W. 432.35 6'	NW. 433.18 8'
6	MANHOLE	440.58	SE. 434.88 6'	NW. 435.03 6'	
7	MANHOLE	447.72	COULD NOT OPEN LABELED SEWER		

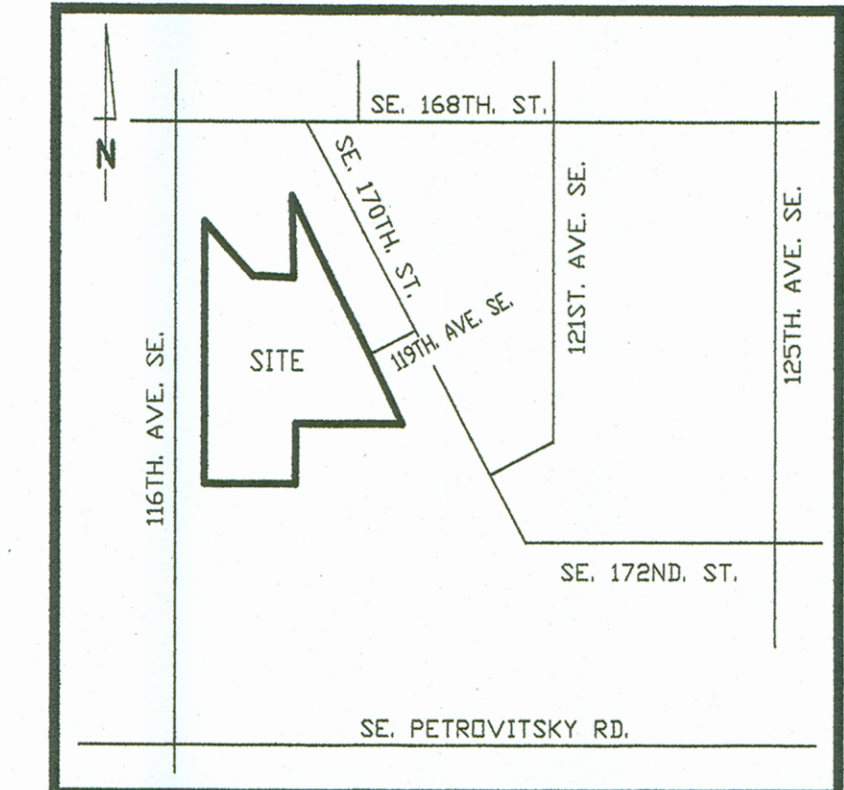
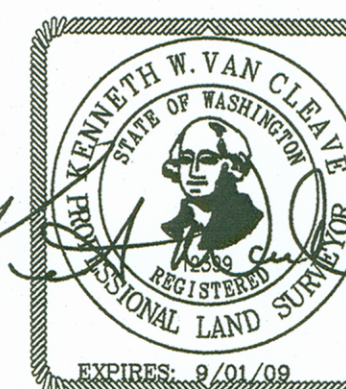
SURVEY CERTIFICATION

TO: MBA CASCADE PLAZA LLC, A WASHINGTON LIMITED LIABILITY COMPANY, FIRST AMERICAN TITLE INSURANCE COMPANY.

THIS IS TO CERTIFY THAT THIS MAP OF PLAT AND SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS" JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND ACSM IN 2005, AND INCLUDES ITEMS 2, 3, 4, 6, 7(A), 7(B)(1) 7(C), 8, 9, 10, 11(B), 4, 15 AND 16 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA, NSPS, ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION THE UNDERSIGNED FURTHER CERTIFIES THAT THE POSITIONAL UNCERTAINTIES RESULTING FROM THE SURVEY MEASUREMENTS MADE THE SURVEY DO NOT EXCEED THE ALLOWABLE POSITIONAL TOLERANCE."

4/14/08
DATE

Kenneth W. Van Cleave
KENNETH W. VAN CLEAVE R.P.L.S. No. 12399



VICINITY MAP
N.T.S.

1. REVISED PER "E" MAIL 4/8/08 DWN. KV JR. CHK. KWW 4/9/08

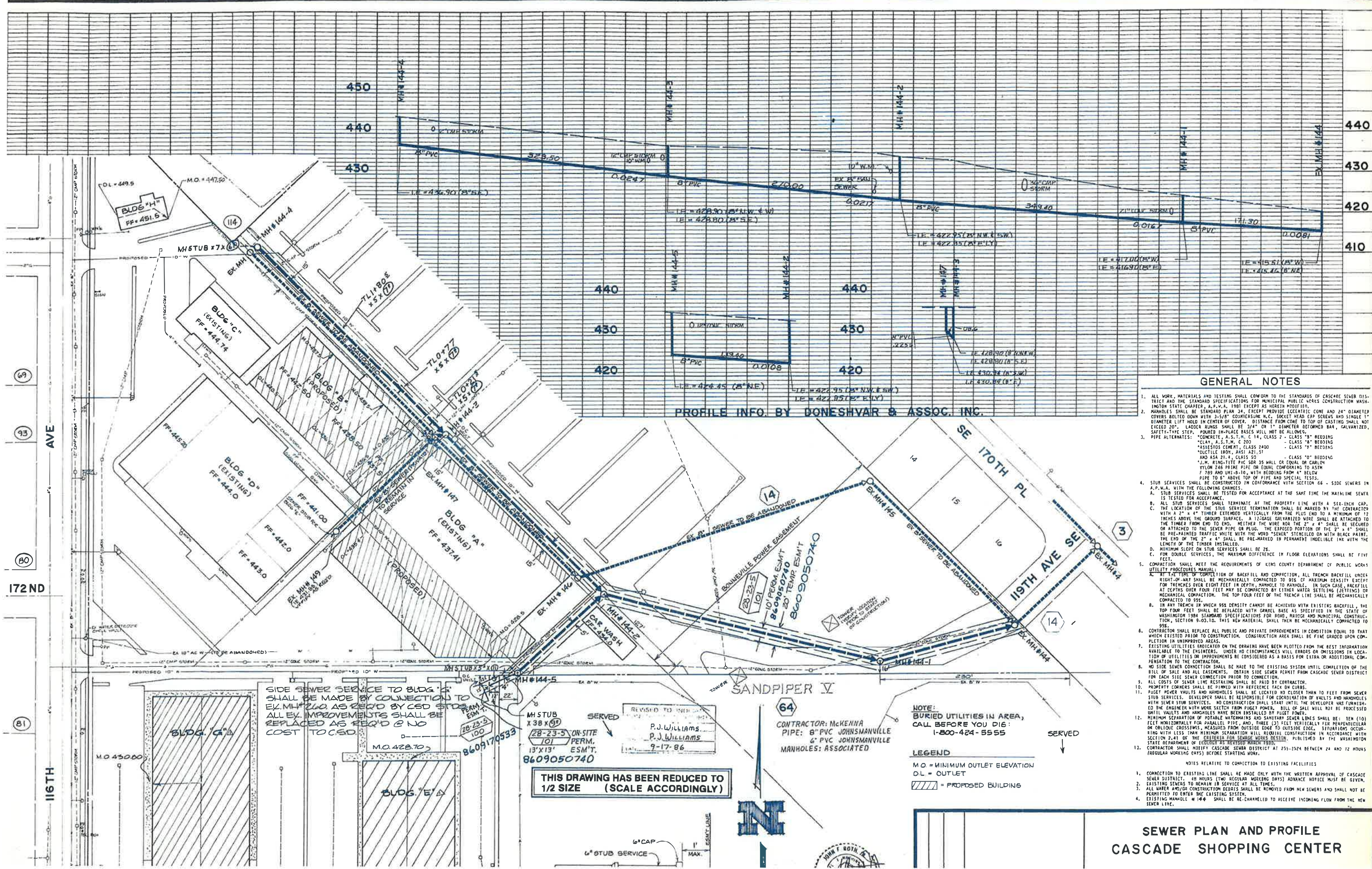
FOR
 CASCADE PLAZA LLC
 C/O ANDERSON & ASSOCIATES
 P.O. BOX 3821
 BELLEVUE, WASHINGTON 98009

CASCADE PLAZA
 17060 116TH AVE. SE.
 RENTON, WA.

VAN CLEAVE AND ASSOCIATES
 112 CANDLEWICK DRIVE WEST
 LAKEWOOD, WASHINGTON 98499
 (253) 588-3821

DWN BY: K.V.V., Jr. CKD BY: K.V. APPRVD BY: K.V.
 DATE 03/08 DATE 03/08 DATE 03/08

F.B. NO. LL/EFB SHEET 1 OF 2
 DWG NO. 07-1382



PROFILE INFO. BY DONESHWAR & ASSOC. INC.

GENERAL NOTES

- ALL WORK, MATERIALS AND TESTING SHALL CONFORM TO THE STANDARDS OF CASCADE SEWER DISTRICT AND THE STANDARD SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS CONSTRUCTION WASHINGTON STATE CHAPTER 14.04, 1981 EXCEPT AS HEREIN MODIFIED.
- MANHOLES SHALL BE STANDARD PLAN 34, EXCEPT PROVIDE ECCENTRIC CONE AND 24" DIAMETER COVERS BOLTED DOWN WITH 3-5/8" CONCRETE/STAINL. SOCKET HEAD CAP SEWERS AND SINGLE 1" DIAMETER LIFT HOLE IN CENTER OF COVER. DISTANCE FROM CONE TO TOP OF CASTING SHALL NOT EXCEED 20". LADDER RUNGS SHALL BE 3/4" OR 1" DIAMETER ROUNDED BAR, GALVANIZED, SAFETY-TYPE STEP. POURED IN-PLACE BASES WILL NOT BE ALLOWED.
- PIPE ALTERNATES:

CONCRETE, A.S.T.M. C 14, CLASS 2	CLASS "B" BEDDING
CLAY, A.S.T.M. C 200	CLASS "B" BEDDING
ASBESTOS CEMENT, CLASS 2400	CLASS "B" BEDDING
DUCTILE IRON, A.S.T. A15.1	CLASS "B" BEDDING
AND ASA 21.4, CLASS 50	CLASS "D" BEDDING
- STUB SERVICES SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 66 - SIDE SEWERS IN A.P.W.A. WITH THE FOLLOWING CHANGES:
 - STUB SERVICES SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE MAINLINE SEWER IS TESTED FOR ACCEPTANCE.
 - ALL STUB SERVICES SHALL TERMINATE AT THE PROPERTY LINE WITH A 3/4" INCH CAP.
 - THE LOCATION OF THE STUB SERVICE TERMINATION SHALL BE MARKED BY THE CONTRACTOR WITH A 2" x 4" TIMBER EXTENDED VERTICALLY FROM THE PLUG END TO A MINIMUM OF 12 INCHES ABOVE THE GROUND SURFACE. A 12-GAUGE GALVANIZED WIRE SHALL BE ATTACHED TO THE TIMBER FROM END TO END. NEITHER THE WIRE NOR THE 2" x 4" SHALL BE SECURED OR ATTACHED TO THE SEWER PIPE OR PLUG. THE EXPOSED PORTION OF THE 2" x 4" SHALL BE PRE-PAINTED TRAFFIC WHITE WITH THE WORD "SEWER" STENCILED ON WITH BLACK PAINT. THE END OF THE 2" x 4" SHALL BE PAINTED IN PERMANENT INDELEIBLE INK WITH THE LENGTH OF THE TIMBER INSTALLED.
 - MINIMUM SLOPE ON STUB SERVICES SHALL BE 2%.
 - FOR DOUBLE SERVICES, THE MAXIMUM DIFFERENCE IN FLOOR ELEVATIONS SHALL BE FIVE FEET.
- CONTRACTOR SHALL MEET THE REQUIREMENTS OF KING COUNTY DEPARTMENT OF PUBLIC WORKS UTILITY PROTECTION MANUAL:
 - AT THE TIME OF COMPLETION OF BACKFILL AND COMPACTION, ALL TRENCH BACKFILL UNDER RIGHT-OF-WAY SHALL BE MECHANICALLY COMPACTED TO 95% OF MAXIMUM DENSITY EXCEPT FOR TRENCHES OVER EIGHT FEET IN DEPTH, MANHOLE TO MANHOLE. IN SUCH CASE, BACKFILL AT DEPTHS OVER FOUR FEET MAY BE COMPACTED BY EITHER WATER SETTLING (SETTLING) OR MECHANICAL COMPACTION. THE TOP FOUR FEET OF THE TRENCH LINE SHALL BE MECHANICALLY COMPACTED TO 95%.
 - IN ANY TRENCH IN WHICH 95% DENSITY CANNOT BE ACHIEVED WITH EXISTING BACKFILL, THE TOP FOUR FEET SHALL BE REPLACED WITH GRANUL BASE AS SPECIFIED IN THE STATE OF WASHINGTON 1984 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, SECTION 9-03.10. THIS NEW MATERIAL SHALL THEN BE MECHANICALLY COMPACTED TO 95%.
- CONTRACTOR SHALL REPLACE ALL PUBLIC AND PRIVATE IMPROVEMENTS IN CONDITION EQUAL TO THAT WHICH EXISTED PRIOR TO CONSTRUCTION. CONSTRUCTION AREA SHALL BE FINE GRADED UPON COMPLETION IN UNIMPROVED AREAS.
- EXISTING UTILITIES INDICATED ON THE DRAWING HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE TO THE ENGINEER. UNDER NO CIRCUMSTANCES WILL ERRORS OR OMISSIONS IN LOCATION OF UTILITIES OR IMPROVEMENTS BE CONSIDERED AS A BASIS FOR EXTRA OR ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- NO SIDE SEWER CONNECTION SHALL BE MADE TO THE EXISTING SYSTEM UNTIL COMPLETION OF THE BILL OF SALE AND ALL CEMENTS. OBTAIN SIDE SEWER PERMIT FROM CASCADE SEWER DISTRICT FOR EACH SIDE SEWER CONNECTION PRIOR TO CONNECTION.
- ALL COSTS OF SEWER LINE RESTAKING SHALL BE PAID BY CONTRACTOR.
- PROPERTY CORNERS SHALL BE PINNED WITH REFERENCE TACK ON CURBS.
- PIVOT POWER VAULTS AND MANHOLES SHALL BE LOCATED NO CLOSER THAN 10 FEET FROM SEWER STUB SERVICES. DEVELOPER SHALL BE RESPONSIBLE FOR COORDINATION OF VAULTS AND MANHOLES WITH SEWER STUB SERVICES. NO CONSTRUCTION SHALL START UNTIL THE DEVELOPER HAS FURNISHED TO THE ENGINEER WITH MORE SKETCH FROM PIVOT POWER. BILL OF SALE WILL NOT BE PROCESSED UNTIL VAULTS AND MANHOLES HAVE BEEN INSTALLED BY PIVOT POWER.
- MINIMUM SEPARATION OF POTABLE WATER MAINS AND SANITARY SEWER LINES SHALL BE: TEN (10) FEET HORIZONTALLY FOR PARALLEL PIPE, AND THREE (3) FEET VERTICALLY FOR PERPENDICULAR OR OBLIQUE CROSSINGS, MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE. SITUATIONS OCCURRING WITH LESS THAN MINIMUM SEPARATION WILL REQUIRE CONSTRUCTION IN ACCORDANCE WITH SECTION 2.41 OF THE STANDARD SPECIFICATIONS FOR UTILITY WORKS SETTLING, PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF ECOLOGY AS REVISED MARCH 1985.
- CONTRACTOR SHALL NOTIFY CASCADE SEWER DISTRICT AT 255-2524 BETWEEN 24 AND 12 HOURS (REGULAR WORKING HOURS) BEFORE STARTING WORK.

NOTE: BURIED UTILITIES IN AREA, CALL BEFORE YOU DIG: 1-800-424-5555

LEGEND
 M.O. = MINIMUM OUTLET ELEVATION
 O.L. = OUTLET
 [Hatched Area] = PROPOSED BUILDING

THIS DRAWING HAS BEEN REDUCED TO 1/2 SIZE (SCALE ACCORDINGLY)

CONTRACTOR: MCKENNA
 PIPE: 8" PVC JOHNSMANVILLE
 6" PVC JOHNSMANVILLE
 MANHOLES: ASSOCIATED

REVISOR: P.J. Williams
 DATE: 9-17-86

ON-SITE PERM. 28-23-5
 13'x13' ESMT. 8609050740

SIDE SEWER SERVICE TO BLDG. "C" SHALL BE MADE BY CONNECTION TO EX. MH#145-1 AS REQ'D BY CSD STDS. ALL EX. IMPROVEMENTS SHALL BE REPLACED AS REQ'D @ NO COST TO CSD.



**SEWER PLAN AND PROFILE
 CASCADE SHOPPING CENTER**

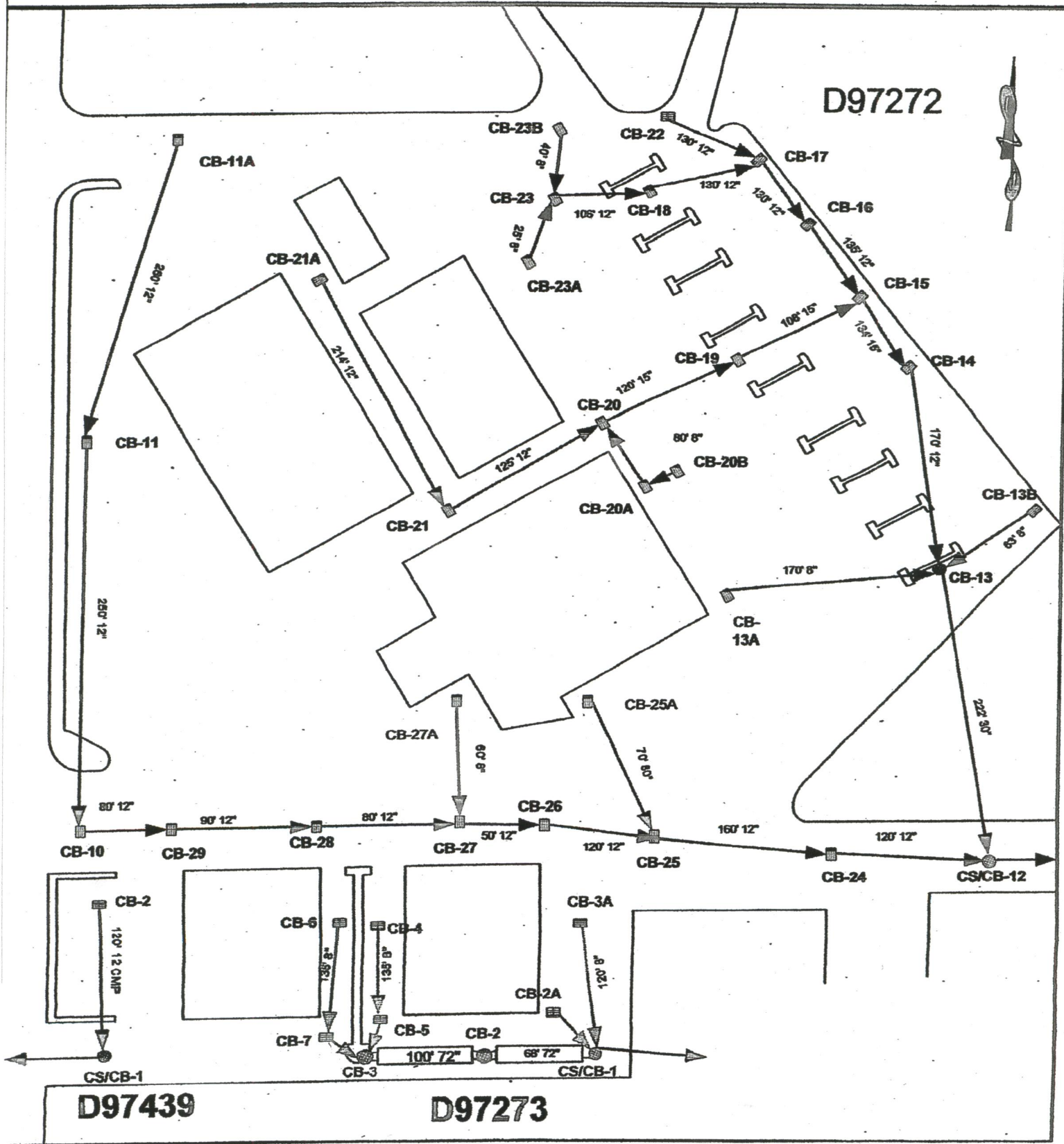
STURM WATER



KING COUNTY
Department of Natural Resources
Water and Land Resource Division

PROJECT NO.	D97439		
PROJECT	Cascade Center		
LOCATION	17036 116 th Ave SE		
KROLL PAGE	602W	BASIN	Soos Creek
TB PAGE	656 F6	TYPE	Conveyance
MAINT DIVISION	4	DATE	Rev 11-25-03
OUT OF SERVICE	No	INITIALS	JRS

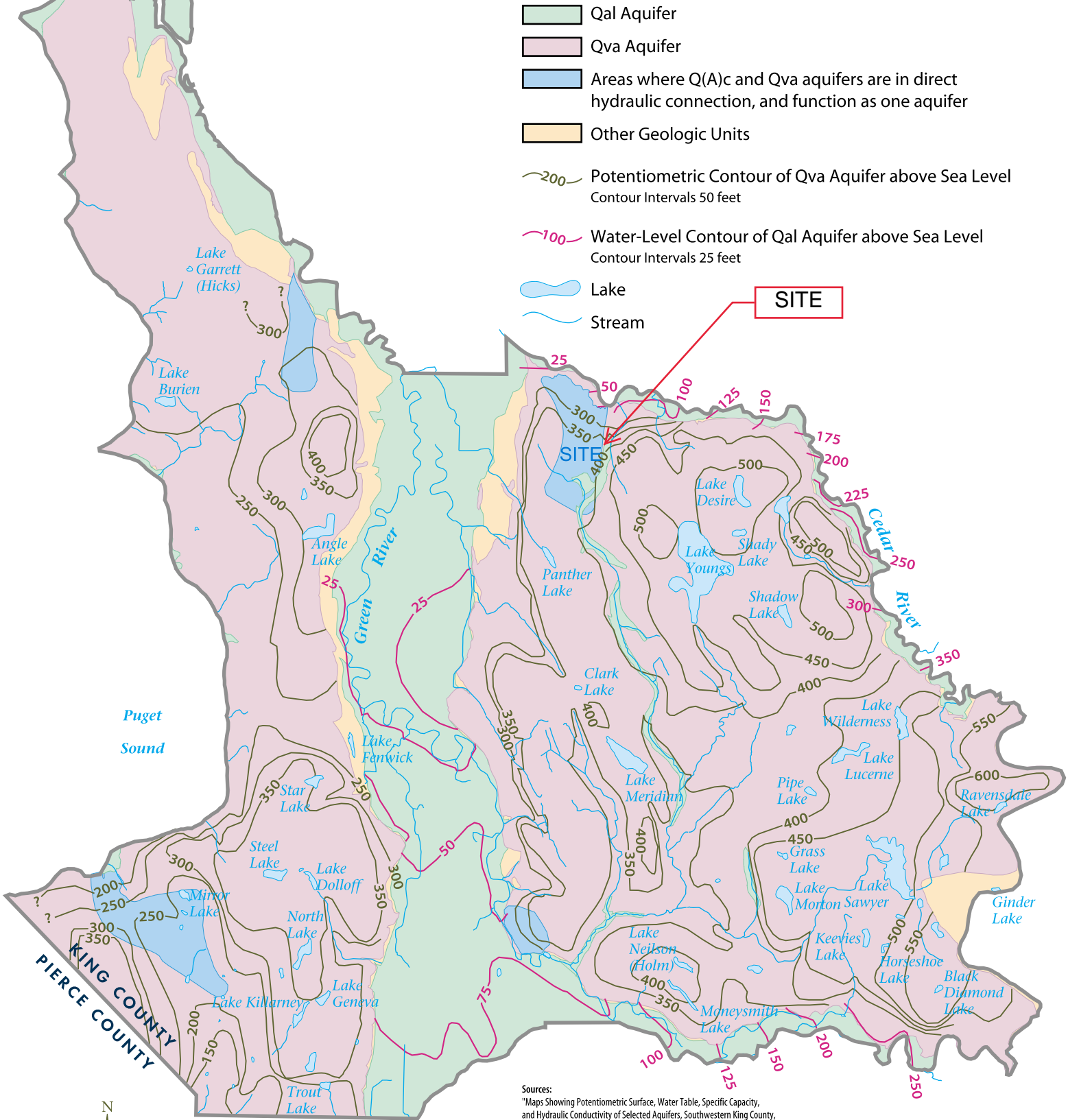
FACILITY SKETCH SHEET



Potentiometric Surface

in the Qva Aquifer and Water Levels in the Qal Aquifer

South King County Groundwater Management Area



Sources:
 "Maps Showing Potentiometric Surface, Water Table, Specific Capacity, and Hydraulic Conductivity of Selected Aquifers, Southwestern King County, Washington, Plate 3(a)". From USGS Water Resources Investigations Report 92-4098 (Prepared by US Geological Survey in cooperation with the WA State Department of Ecology, the Regional Water Association of South King County, and the Seattle-King County Department of Public Health)

Produced by the Visual Communication & GIS Unit,
 Department of Natural Resources, February, 2000

Filename 0002SKCgwtrPLATE3a.ai FB



Appendix C

Terrestrial Ecological Evaluation



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

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

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

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

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

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

Step 1: IDENTIFY HAZARDOUS WASTE SITE

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

Facility/Site Name: Former Cascade Cleaners

Facility/Site Address: 16912 116th Avenue SE, Renton, WA 98058

Facility/Site No: 59939615

VCP Project No.: NA

Step 2: IDENTIFY EVALUATOR

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

Name: Mike Noll

Title: Senior Project Manager

Organization: GHD Services, Inc.

Mailing address: 9725 3rd Avenue NE, Suite 204

City: Seattle

State: WA

Zip code: 98115

Phone: 425-409-4246

Fax:

E-mail: Michael.Noll@GHD.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

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

2. Did you conduct a simplified evaluation?

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

3. Was further evaluation necessary?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. If you conducted further site-specific evaluations, what methods did you use?

Check all that apply. See WAC 173-340-7493(3).

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

4. What was the result of those evaluations?

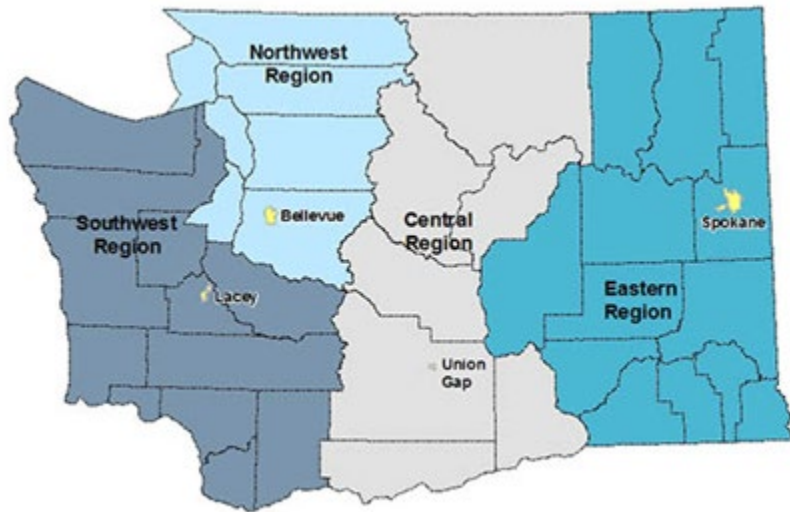
- Confirmed there was no problem.
- Confirmed there was a problem and established site-specific cleanup levels.

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

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

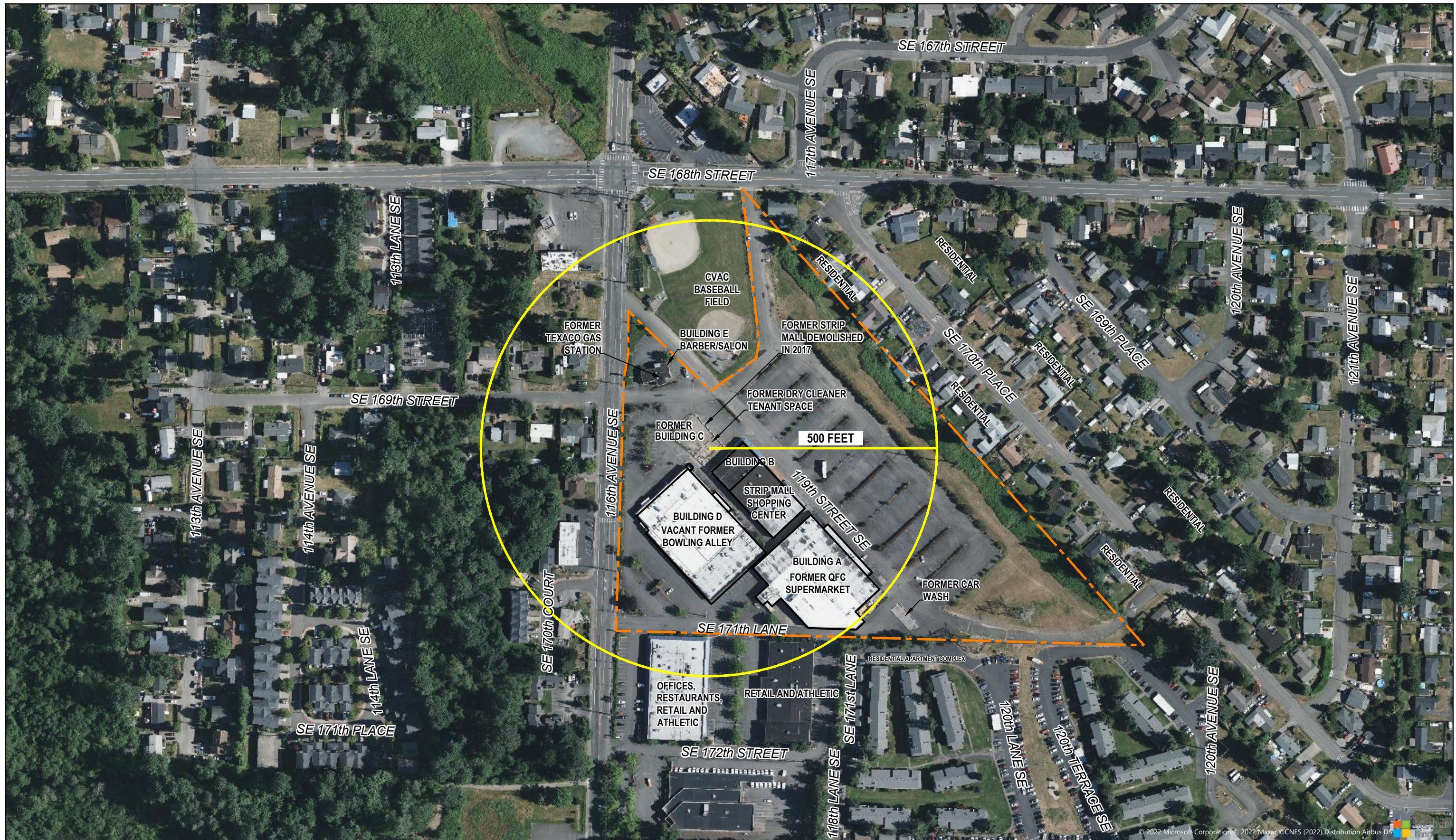
Step 4: SUBMITTAL

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



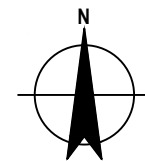
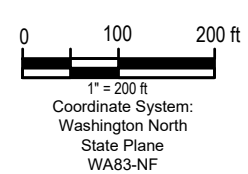
Northwest Region: Attn: VCP Coordinator 3190 160 th Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane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

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



LEGEND

--- PROPERTY BOUNDARY LINE



CASCADE VILLAGE - FORMER CASCADE CLEANERS
 16912 116th AVENUE SE
 RENTON, WASHINGTON

500 FEET RADIUS

Project No. 12561532
 Date May 2022

FIGURE C-1

Appendix D

Boring/Well Logs

Resource Protection Well Report

CURRENT
Notice of Intent No. RL3791

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle)
 Construction
 Decommission ORIGINAL INSTALLATION Notice
of Intent Number _____

Type of Well ("x" in circle)
 Resource Protection
 Geotech Soil Boring

Consulting Firm Zipper Zeaman Assoc.

Property Owner Cascade Industries

Unique Ecology Well ID MW-5

Site Address 16906 116th Ave SE

Tag No: AHS 240
WELL CONSTRUCTION CERTIFICATION I constructed and/or accept for construction of this well, and it compliance with all Washington construction standards. Materials used and the information reported above are true to my best knowledge and belief

City Renton County: King
Location N61/4 S21/4 Sec 28 Twn 23N R 5 EWM or WWM

Driller Engineer Trainee Name (Print) Pete Larsen

Lat/Long (s, t, r, still REQUIRED) Lat Deg _____ Lat Min/Sec _____

Driller/Engineer/Trainee Signature [Signature]

Lat Deg _____ Long Min/Sec _____

Driller or Trainee License No _____

Tax Parcel No 2323059009
Cased or Uncased Diameter 1.5" Static Level N/A
Work/Decommission Start Date 5/15/03
Work/Decommission Completed Date 5/16/03

If trainee, licensed driller's
Signature and License no. _____

Construction/Design Well Data Formation Description

	Water-tight cover Surface flush vault Locking Cap/Lock	0 ft to <u>12.5</u> ft
	Casing Diameter <u>1.5</u> in. Material <u>PVC</u>	<u>Silt & Sand</u>
	Well Seal <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Threaded <input type="checkbox"/> Glued From <u>1</u> ft To <u>7</u> ft Material <u>Boncrete</u> Amount <u>1.5 lb</u> Grout Weight _____	_____ ft. to _____ ft.
	Drilling Method Hollow-Stem Auger _____ Air Rotary _____ <input checked="" type="checkbox"/> Push Probe _____ Mud Rotary _____ Other _____	_____ ft. to _____ ft.
	Borehole diameter <u>3.25</u> in	_____ ft. to _____ ft.
	Screen Material <u>PVC</u> Interval(s) From <u>7</u> To <u>12.5</u> From _____ To _____	_____ ft. to _____ ft.
	Filter Pack Slot Size <u>10/16</u> in From <u>7</u> ft To <u>12.5</u> ft Material <u>Quartz</u> Size <u>10 x 20</u> in Completed Depth: <u>12.5</u> in	_____ ft. to _____ ft.

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

Boring Number:	B1	Page 1 of 1	
Location:	Northeast portion of the dry cleaning facility	Date Started:	6/19/2015
Site Address:	16950-17060 116th Avenue Southeast	Date Completed:	6/19/2015
	Renton, Washington 98058	Depth to Groundwater:	N/A
Project Number:	15-139176.2	Field Technician:	H. White
Drill Rig Type:	Direct-Push, Limited-Access Rig	Partner Engineering and Science	
Sampling Equipment:	Acetate Liners	2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2.25 inches	Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1	SG1-4 B1-5	0.0	SP	0.5'-2.5' Brown medium-fine SAND, little f rounded Gravel; Dry.	6-inch asphalt @ surface
2		0.0	ML	2.5'-4.0' Dark brown SILT, some medium-fine Sand, trace Gravel; Dry.	
3					
4		0.0	ML	4.0'-7.0' Light brown SILT, some medium-fine Sand, little fine Gravel; moist @ 4.0 feet below ground surface.	
5					
6					
7					
8					Boring refusal at 7 feet below ground surface. Borehole was backfilled with bentonite chips and capped to match surrounding cover upon completion of sampling.
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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20					
21					
22					
23					
24					
25					

Boring Number:		B2		Page 1 of 1	
Location:		Central portion of the dry cleaning facility		Date Started:	6/19/2015
Site Address:		16950-17060 116th Avenue Southeast		Date Completed:	6/19/2015
		Renton, Washington 98058		Depth to Groundwater:	N/A
Project Number:		15-139176.2		Field Technician:	H. White
Drill Rig Type:		Direct-Push, Limited-Access Rig		Partner Engineering and Science	
Sampling Equipment:		Acetate Liners		2154 Torrance Boulevard, Suite 200	
Borehole Diameter:		2.25 inches		Torrance, California 90501	
Depth	Sample	PID	USCS	Description	Notes
1		0.0	SP	0.5'-2.0' Brown medium-fine SAND, little fine Gravel; Dry.	6-inch asphalt @ surface
2					
3		0.0	ML	2.0'-4.0' Dark brown SILT, some medium-fine Sand, trace Clay; Dry.	
4	SG2-4				
5	B2-5	0.0			
6			ML	4.0'-7.0' Brown SILT, some medium-fine Sand, little fine Gravel; moist @ 4.0 feet below ground surface.	
7	B2-7				
8					Boring refusal at 7 feet below ground surface. Borehole was backfilled with bentonite chips and capped to match surrounding cover upon completion of sampling.
9					
10					
11					
12					
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21					
22					
23					
24					
25					

Boring Number:		B3		Page 1 of 1	
Location:		Southwest portion of the dry cleaning facility		Date Started:	6/19/2015
Site Address:		16950-17060 116th Avenue Southeast		Date Completed:	6/19/2015
		Renton, Washington 98058		Depth to Groundwater:	N/A
Project Number:		15-139176.2		Field Technician:	H. White
Drill Rig Type:		Direct-Push, Limited-Access Rig		Partner Engineering and Science	
Sampling Equipment:		Acetate Liners		2154 Torrance Boulevard, Suite 200	
Borehole Diameter:		2.25 inches		Torrance, California 90501	
Depth	Sample	PID	USCS	Description	Notes
1		0.0	SP	0.5'-2.0' Brown medium-fine SAND, little fine rounded Gravel; Dry.	6-inch asphalt @ surface
2		5.3			
3		45.0	SP	2.0'-3.0' Light brown medium-fine SAND and SILT, trace f Gravel; Dry.	
4	SG3-4	55.4	ML	3.0'-4.0' Light brown SILT, little medium-fine Sand, trace Gravel; Dry.	
5	B3-5.5	263.3	ML/SP	4.0'-5.5' Brown SAND and SILT, little fine Gravel; Dry.	
6					Boring refusal at 5.5 feet bgs. Borehole was backfilled with bentonite chips and capped to match surrounding cover upon completion of sampling.
7					
8					
9					
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11					
12					
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25					

Boring Number:	B4		
Location:	Exterior; South of dry cleaning facility	Date Started:	9/29/2015
Site Address:	16952-17060 116th Avenue Southeast	Date Completed:	9/29/2015
	Renton, Washington 98058	Depth to Groundwater:	N/A
Project Number:	15-139176.3	Field Technician:	H. White
Drill Rig Type:	Direct-Push; Geoprobe 7800	Partner Engineering and Science	
Sampling Equipment:	Acetate Liners	2154 Torrance Boulevard, Suite 200	
Borehole Diameter:	2.25-inches	Torrance, California 90501	

Depth	Sample	PID	USCS	Description	Notes
1					6-inches of asphalt at surface
2					
3		9.8	SP	0.5'-5.0' Brown medium-fine SAND, some fine Gravel; Moist.	
4					
5	B4-5				
6					
7					
8		5.9	SM	5.0'-9.0' Brown Silty SAND, some fine Gravel; Dry.	
9	B4-9				
10					
11		122.7	GP/SP	9.0'-12.0' Dark brown GRAVEL and SAND; Dense; Dry.	
12	B4-12				
13					Boring refusal at 12 feet below ground surface (bgs). Borehole was backfilled with bentonite chips upon completion of sampling.
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Boring Number:		B5			
Location:		Exterior; North of dry cleaning facility		Date Started:	9/29/2015
Site Address:		16952-17060 116th Avenue Southeast		Date Completed:	9/29/2015
		Renton, Washington 98058		Depth to Groundwater:	N/A
Project Number:		15-139176.3		Field Technician:	H. White
Drill Rig Type:		Direct-Push; Geoprobe 7800		Partner Engineering and Science	
Sampling Equipment:		Acetate Liners		2154 Torrance Boulevard, Suite 200	
Borehole Diameter:		2.25-inches		Torrance, California 90501	
Depth	Sample	PID	USCS	Description	Notes
1			GP	0.5'-1.5' Dark brown Sandy GRAVEL; Dry.	6-inches of asphalt at surface
2			SP	1.5'-2.0' Gray medium-fine SAND; Dry.	
3		1.2			
4			SM	2.0'-5.0' Gray Silty SAND, some fine Gravel; Dry.	
5	B5-5				
6					
7					
8		0.0	SP	5.0'-9.0' Brown medium-fine SAND, some fine Gravel, little Silt; Dense; Dry.	
9	B5-9				
10			CL	9.0'-10.5' Dark brown Silty CLAY, little fine Sand; Dry.	
11		0.0			
12	B5-12		GP/SP	10.5'-12.0' Brown GRAVEL and SAND; Dry.	
13					Boring refusal at 12 feet below ground surface (bgs). Borehole was backfilled with bentonite chips upon completion of sampling.
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

Boring Number:		B6		Page 1 of 1	
Location:		Exterior; South of dry cleaning facility		Date Started:	9/29/2015
Site Address:		16952-17060 116th Avenue Southeast		Date Completed:	9/29/2015
		Renton, Washington 98058		Depth to Groundwater:	N/A
Project Number:		15-139176.3		Field Technician:	H. White
Drill Rig Type:		Direct-Push; Geoprobe 7800		Partner Engineering and Science	
Sampling Equipment:		Acetate Liners		2154 Torrance Boulevard, Suite 200	
Borehole Diameter:		2.25-inches		Torrance, California 90501	
Depth	Sample	PID	USCS	Description	Notes
1					6-inches of asphalt at surface
2					
3		0.9	SP	0.5'-5.0' Brown medium-fine SAND, little fine Gravel, little silt; Dense; Dry.	
4					
5	B6-5				
6			SP	5.0'-5.5' Gray medium-fine SAND; Dry.	
7					
8		0.0	GP/SP	5.5'-9.0' Brown GRAVEL and SAND; Dense; Dry.	
9	B6-9				
10					Boring refusal at 9 feet below ground surface (bgs). Borehole was backfilled with bentonite chips upon completion of sampling.
11					
12					
13					
14					
15					
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22					
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25					

Boring Number:		MW-1		Page 1 of 1	
Location:		Southeast of former dry cleaning facility		Date Started:	11/2/2015
Site Address:		16950-17060 116th Avenue Southeast		Date Completed:	11/2/2015
		Renton, Washington 98058		Depth to Groundwater:	72 feet bgs
Project Number:		15-139176.4		Field Technician:	H. White
Drill Rig Type:		Hollow Stem Auger		Partner Engineering and Science	
Sampling Equipment:		Split Spoon		2154 Torrance Boulevard, Suite 200	
Borehole Diameter:		8.25-inches		Torrance, California 90501	
Depth	Sample	PID	USCS	Description	Notes
3					6-inches of asphalt at surface
6	MW1-5	1.9	SP	0.5'-5.0' Brown medium-fine SAND, little fine Gravel, trace Clay; Dry.	
9			SP	5.0'-10.0' Gray and brown medium-fine SAND, some Clay, little fine Gravel; Dry.	2" PVC riser from 0 to 67 feet bgs
12	MW1-10	0.9			0.010" Slotted PVC Screen from 67 to 82 feet bgs
15	MW1-15	0.0	SP	10.0'-20.0' Gray medium-fine SAND, little fine Gravel; Dry.	
18					
21	MW1-20	0.0	SP	20.0'-25.0' Gray medium-fine SAND, some fine Gravel, trace Clay; Dry.	
24					
27	MW1-25	0.9	SP/GP	25.0'-30.0' Gray medium-fine SAND and fine GRAVEL, little Clay; Dry.	
30	MW1-30	0.0			
33	MW1-35	1.5	SC	30.0'-35.0' Gray Clayey SAND, little fine Gravel; Dry.	
36			SC	35.0'-40.0' Gray Clayey SAND, trace fine Gravel; Dry.	
39					
42	MW1-40	1.2	SP/GP	40.0'-45.0' Gray medium-fine SAND and fine GRAVEL, trace Clay; Dense; Moist.	
45	MW1-45	0.0			
48				45.0'-50.0' Soil unrecovered	
51			SP/CL	50.0'-55.0' Dark gray medium-fine SAND and CLAY; Moist.	
54					
57	MW1-55	0.0	SP/CL	55.0'-60.0' Dark gray medium-fine SAND and CLAY, little fine Gravel; Moist.	
60					
63	MW1-60	0.0	SC	60.0'-65.0' Tan Clayey SAND, some fine Gravel; Dry.	
66			CL	65.0'-70.0' Tan CLAY, little fine Gravel, little coarse-medium-fine SAND; Moist.	
69					
72	MW1-70	1.1			
75	MW1-75	0.9			
78			GP	70.0'-82.0' Tan fine GRAVEL, trace medium-fine Sand, trace Clay; Wet at 72' bgs.	Water at 72' bgs
81		0.0			Boring terminated at 82 feet below ground surface (bgs). Monitoring well was installed.
82					

Boring Number:	MW-2	Date Started:	11/3/2015
Location:	Southeast corner of Building C	Date Completed:	11/3/2015
Site Address:	16950-17060 116th Avenue Southeast	Depth to Groundwater:	32 feet bgs
	Renton, Washington 98058	Field Technician:	H. White
Project Number:	15-139176.4	Partner Engineering and Science	
Drill Rig Type:	Hollow Stem Auger	2154 Torrance Boulevard, Suite 200	
Sampling Equipment:	Split Spoon	Torrance, California 90501	
Borehole Diameter:	8.25-inches		

Depth	Sample	PID	USCS	Description	Notes
2					6-inches of asphalt at surface
4	MW2-5	0.0	SP	0.5'-5.0' Brown medium-fine SAND, some Clay; Dry.	
6					2" PVC riser from 0 to 25 feet bgs
8			SP	5.0'-10.0' Brown medium-fine SAND, some Clay, little fine Gravel; Dry.	0.010" Slotted PVC Screen from 25 to 40 feet bgs
10	MW2-10	53.8			
12			SC	10.0'-15.0' Brown Clayey SAND, some fine Gravel; Dry.	
14	MW2-15	180			
16					
18			CL	15.0'-20.0' Brown and gray CLAY, some fine Sand, trace fine Gravel; Dry.	
20	MW2-20	113			
22					
24					
26	MW2-25	359.0	SP	20.0'-30.0' Gray medium-fine SAND, little Clay, trace fine Gravel; Dry.	
28					
30	MW2-30	23.8			
32					
34					
36	MW2-35	19.6	SP	30.0'-40.0' Gray medium-fine SAND, some fine Gravel, little Clay; Wet at 32' bgs.	
38					
40					
42					Boring terminated at 40 feet below ground surface (bgs). Monitoring well was installed.
44					
46					
48					
50					

Boring Number:		MW-3			
Location:		Southeast corner of Building C		Date Started:	11/9/2015
Site Address:		16950-17060 116th Avenue Southeast		Date Completed:	11/9/2015
		Renton, Washington 98058		Depth to Groundwater:	25-30 feet bgs
Project Number:		15-139176.4		Field Technician:	H. White
Drill Rig Type:		Hollow Stem Auger		Partner Engineering and Science 2154 Torrance Boulevard, Suite 200 Torrance, California 90501	
Sampling Equipment:		Split Spoon			
Borehole Diameter:		8.25-inches			
Depth	Sample	PID	USCS	Description	Notes
2					6-inches of asphalt at surface
4	MW3-5	0.0	CL	0.5'-5.0' Brown and gray CLAY, some medium-fine sand, little fine Gravel; Dry.	
6					2" PVC riser from 0 to 20 feet bgs
8					0.010" Slotted PVC Screen from 20 to 35 feet bgs
10	MW3-10	0.0	SP	5.0'-15.0' Brown medium-fine SAND, little fine Gravel, trace Clay; Dry.	
12					
14					
16	MW3-15	0.8			
18					
20	MW3-20	0.0	SP	15.0'-25.0' Brown and gray meduim-fine SAND, little Silt, little fine Gravel; Dry.	
22					
24					
26	MW3-25	0.0			
28			SP	25.0'-30.0' Gray medium-fine SAND, some fine Gravel, trace Clay; Wet.	
30	MW3-30	0.0			
32					
34	MW3-35	0.0	SM	30.0'-35.0' Gray Silty SAND, little Clay, trace fine Gravel; Moist.	
36					Boring terminated at 35 feet below ground surface (bgs). Monitoring well was installed.
38					
40					
42					
44					
46					
48					
50					

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice
of Intent Number SE64054/AE45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID

EB-1

B-8

Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23N R 5E EWM or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. _____

Driller Trainee Name (Print)

L. Felner

Driller/Trainee Signature _____

[Signature]

Cased or Uncased Diameter 2 1/4" Static Level

Driller/Trainee License No. _____

3178

Work/Decommission Start Date 11/1/17

Trainee, licensed drillers' _____

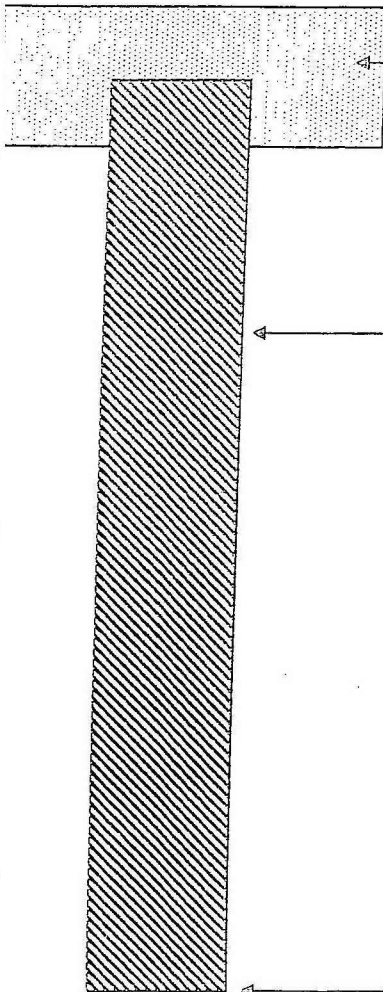
Signature and License No. _____

Work/Decommission Completed Date 11/1/17

Construction/Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

BACKFILL

11 FT

3/8 Bentonite

DEPTH OF BORING 13 FT

0 - 5 FT
Asphalt, coarse brown sand and gravel

0 5 - 13 FT
Coarse Brown Sand and gravel
Fine brown sand and silt
+1

RECEIVED

JAN 02 2019

**DEPT OF ECOLOGY
NWRO - WR**

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number SE64054/AE45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID

EB-2

B-6

Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23n R 5E EWM or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print)

L. Felner

Driller/Trainee Signature

[Signature]

Driller/Trainee License No.

3178

Tax Parcel No. _____

Cased or Uncased Diameter

2 1/4"

Static Level

Trainee, licensed drillers' Signature and License No.

Work/Decommission Start Date

11/1/17

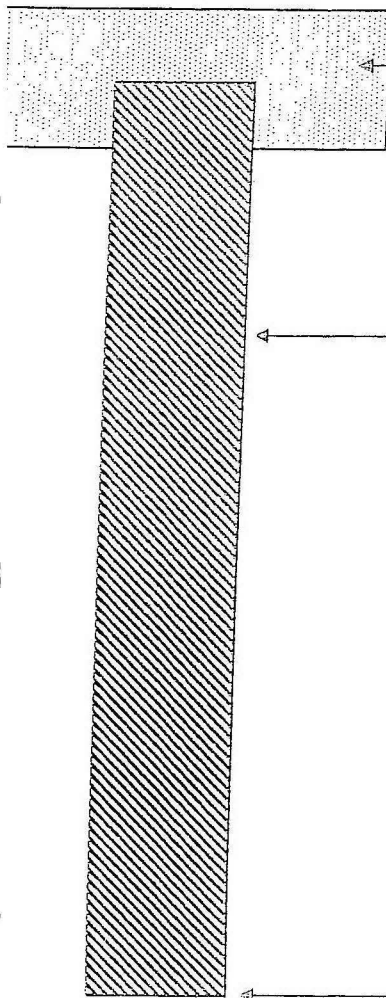
Work/Decommission Completed Date

11/1/17

Construction/Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

BACKFILL

13 FT

3/8 Bentonite

DEPTH OF BORING

15 FT

0 - 5 FT
Asphalt, coarse brown sand and gravel

0.5 - 15 FT
Coarse Brown Sand and gravel
Fine brown sand and silt
f.l.

0 FT

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RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number SE64054/AE45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID EB-3 B-5
Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23N R 5E or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s.t.r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. _____

Driller Trainee Name (Print) L. Felner

Driller/Trainee Signature [Signature]

Cased or Uncased Diameter 2 1/4" Static Level

Driller/Trainee License No. 3178

Work/Decommission Start Date 11/1/17

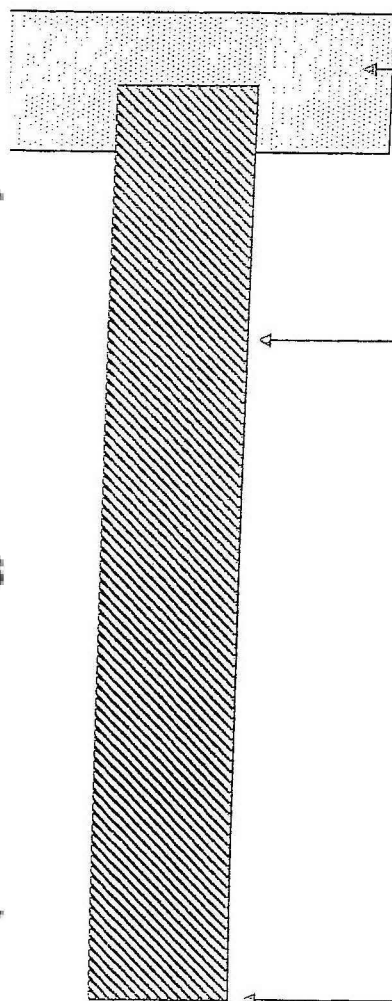
Signature and License No. _____

Work/Decommission Completed Date 11/1/17

Construction/Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

BACKFILL

10.5 FT

3/8 Bentonite

DEPTH OF BORING 12.5 FT

0 - 5 FT
Asphalt, coarse brown sand and gravel

0.5 - 12.5 FT
Coarse Brown Sand and gravel
Fine brown sand and silt
+1

0 FT

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JAN 02 2019

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NWRO - WR

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RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE 64054/AE 45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number SE 64054/AE 45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID

EB-4

B-3

Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23n R 5e or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Materials used and the information reported above are true to my best knowledge and belief

Tax Parcel No. _____

Driller Trainee Name (Print)

L. Felner

Driller/Trainee Signature _____

[Signature]

Cased or Uncased Diameter 2 1/4" Static Level

Driller/Trainee License No. _____

3178

Work/Decommission Start Date 11/1/17

Trainee, licensed drillers' _____

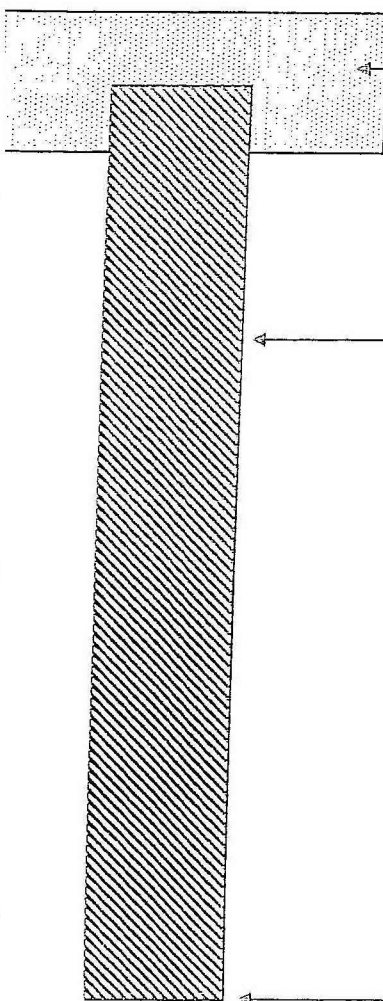
Signature and License No. _____

Work/Decommission Completed Date 11/1/17

Construction/Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

BACKFILL

11.5 FT

3/8 Bentonite

DEPTH OF BORING 13.5 FT

0 - 5 FT
Asphalt, coarse brown sand and gravel

0.5 - 13.5 FT
Coarse Brown Sand and gravel
Fine brown sand and silt
+1

0 - _____ FT

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DEPT OF ECOLOGY
NWRO - WR

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number SE64054/AE45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID EB-5 Tag No. B-1

Location 14 NW 14 SW Sec 28 Twn 23N R SE EWM or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Felner
Driller/Trainee Signature [Signature]
Driller/Trainee License No. 3178

Tax Parcel No. _____
Cased or Uncased Diameter 2 1/4" Static Level

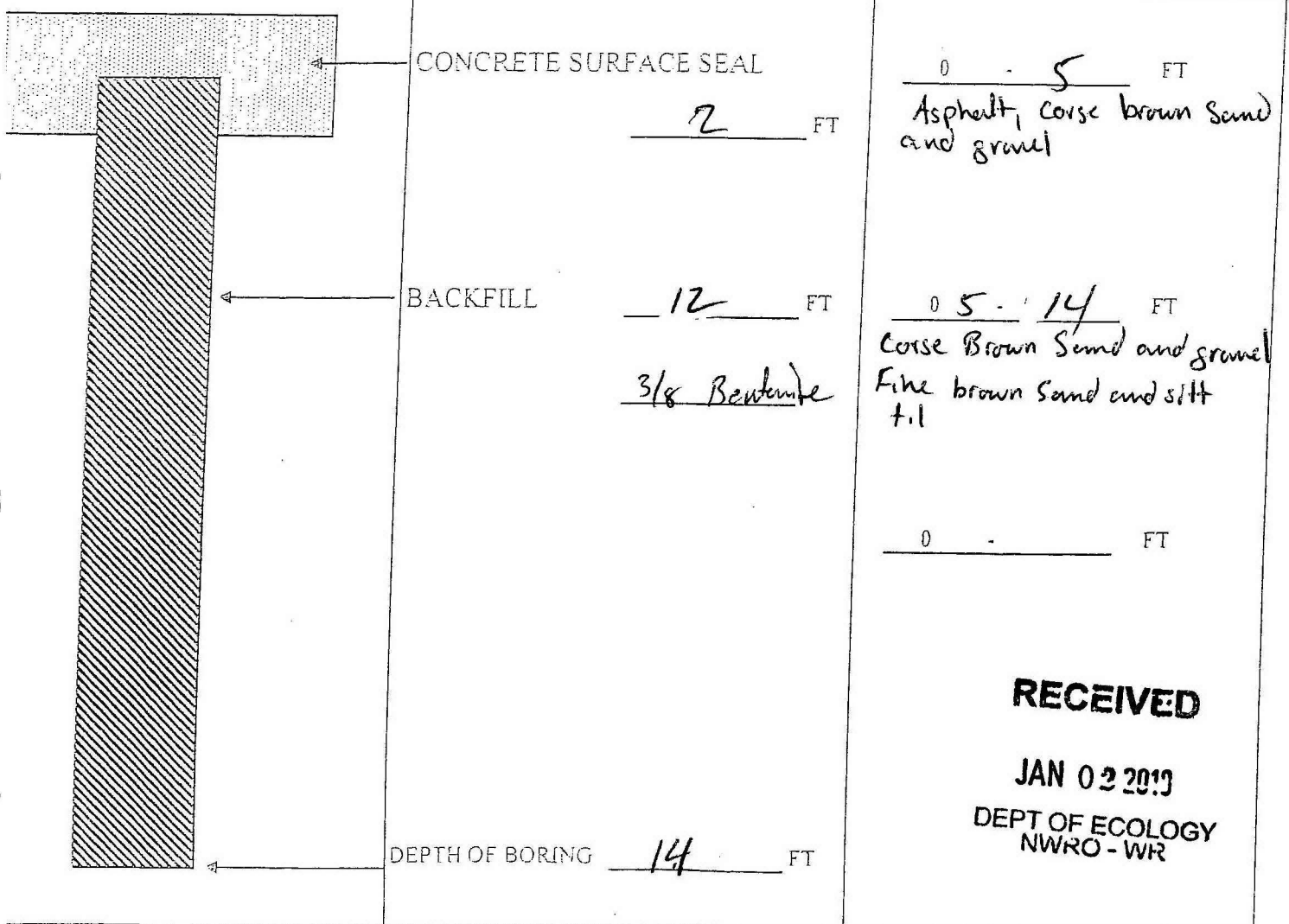
Trainee, licensed drillers' Signature and License No. _____

Work/Decommission Start Date 11/1/17
Work/Decommission Completed Date 11/1/17

Construction/Design

Well Data

Formation Description



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The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number SE64054/AE45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID

EB-6

B-4

Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23N R 5E EWM or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,r still Required) Lat Deg _____ Lat Min/Sec _____ Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print)

L. Felner

Driller/Trainee Signature

[Signature]

Cased or Uncased Diameter 2 1/4" Static Level

Driller/Trainee License No.

3178

Work/Decommission Start Date 11/1/17

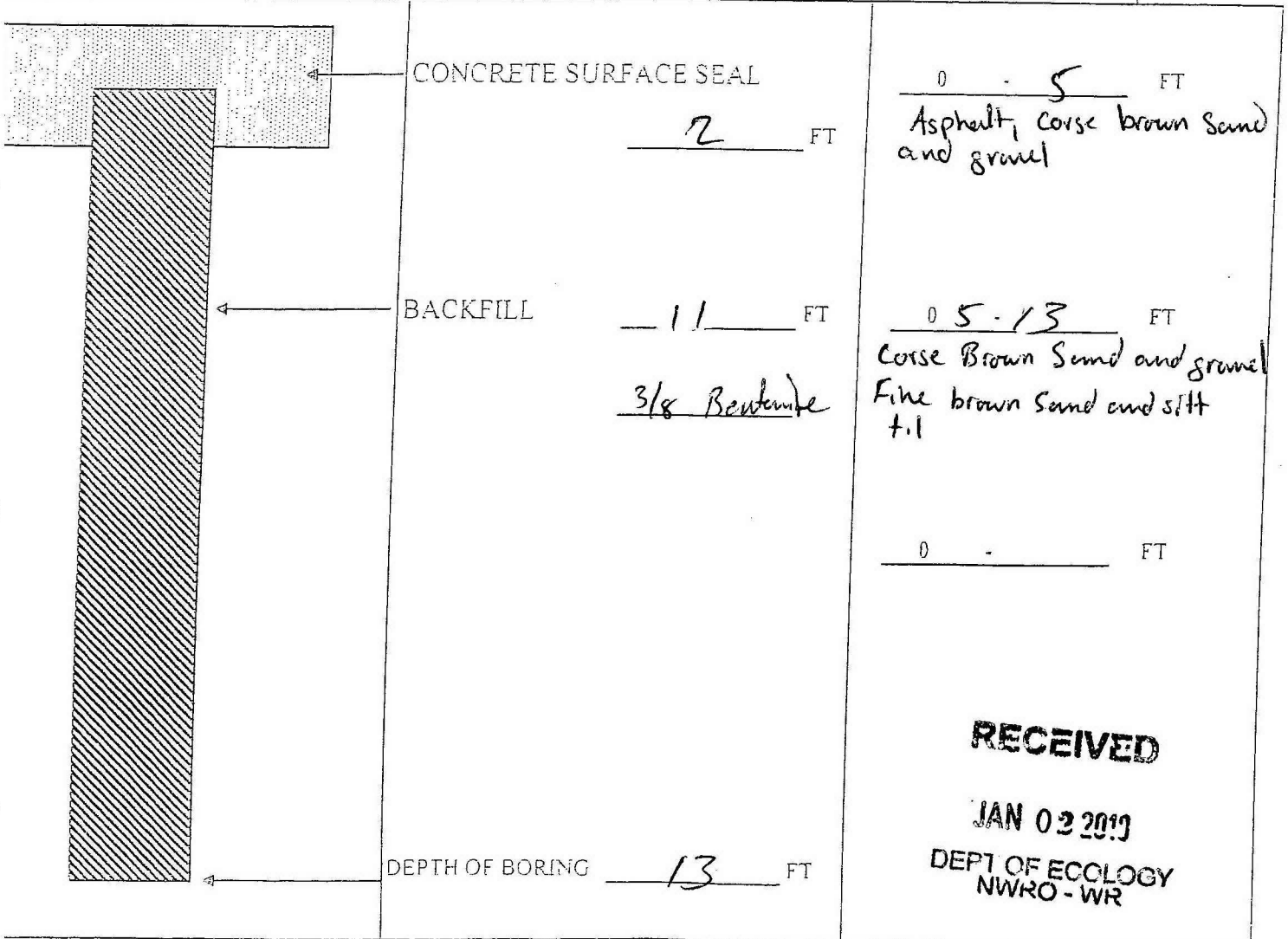
Signature and License No. _____

Work/Decommission Completed Date 11/1/17

Construction/Design

Well Data

Formation Description



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RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED.)

CURRENT

Notice of Intent No. SE 64054/AE 45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number SE 64054/AE 45937

Type of Well

Resource Protection

Geotechnical Soil Boring

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Consulting Firm Terracem

Unique Ecology Well ID EB-7

Tag No. B-4

Location 14 NW 14 SW Sec 28 Twn 23N R 5E

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____

still Required) Long Deg _____ Long Min/Sec _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards

materials used and the information reported above are true to my best knowledge and belief

Driller Trainee Name (Print) L. Felner

Driller/Trainee Signature [Signature]

Driller/Trainee License No. 3178

Cased or Uncased Diameter 2 1/4" Static Level

Work/Decommission Start Date 11/1/17

Work/Decommission Completed Date 11/1/17

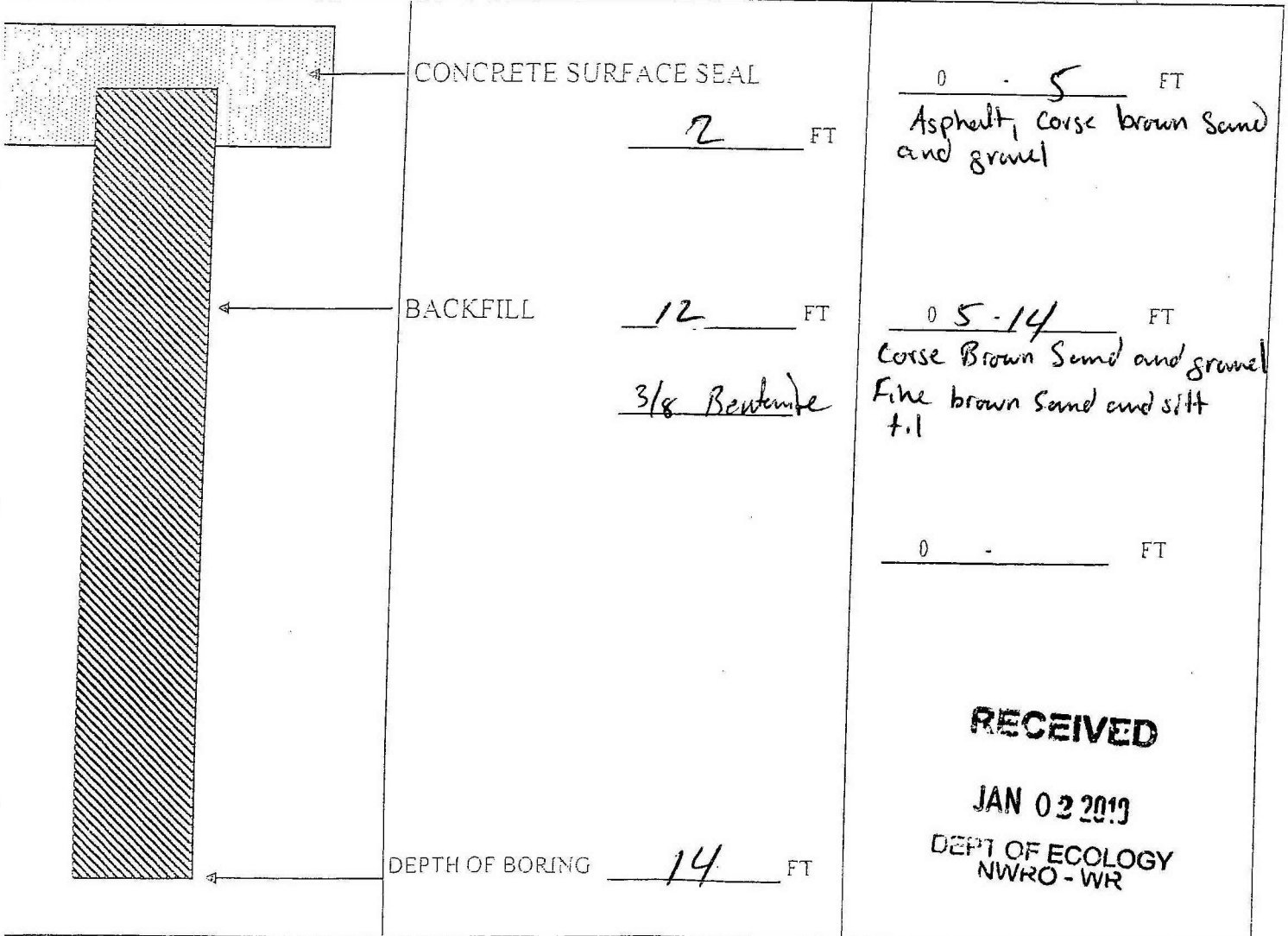
Trainee, licensed drillers' _____

Signature and License No. _____

Construction/Design

Well Data

Formation Description



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DEPT OF ECOLOGY
NWRO - WR

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice
of Intent Number SE64054/AE45937

Type of Well

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Terracem

Property Owner _____

Site Address 16912 116th Ave SE

City Renton County King

Unique Ecology Well ID EB-8 B-2
Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23N R 5E EWM
or
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Felner

Tax Parcel No. _____

Driller/Trainee Signature [Signature]

Cased or Uncased Diameter 2 1/4" Static Level

Driller/Trainee License No. 3178

Work/Decommission Start Date 11/1/17

Drill trainee, licensed drillers' _____

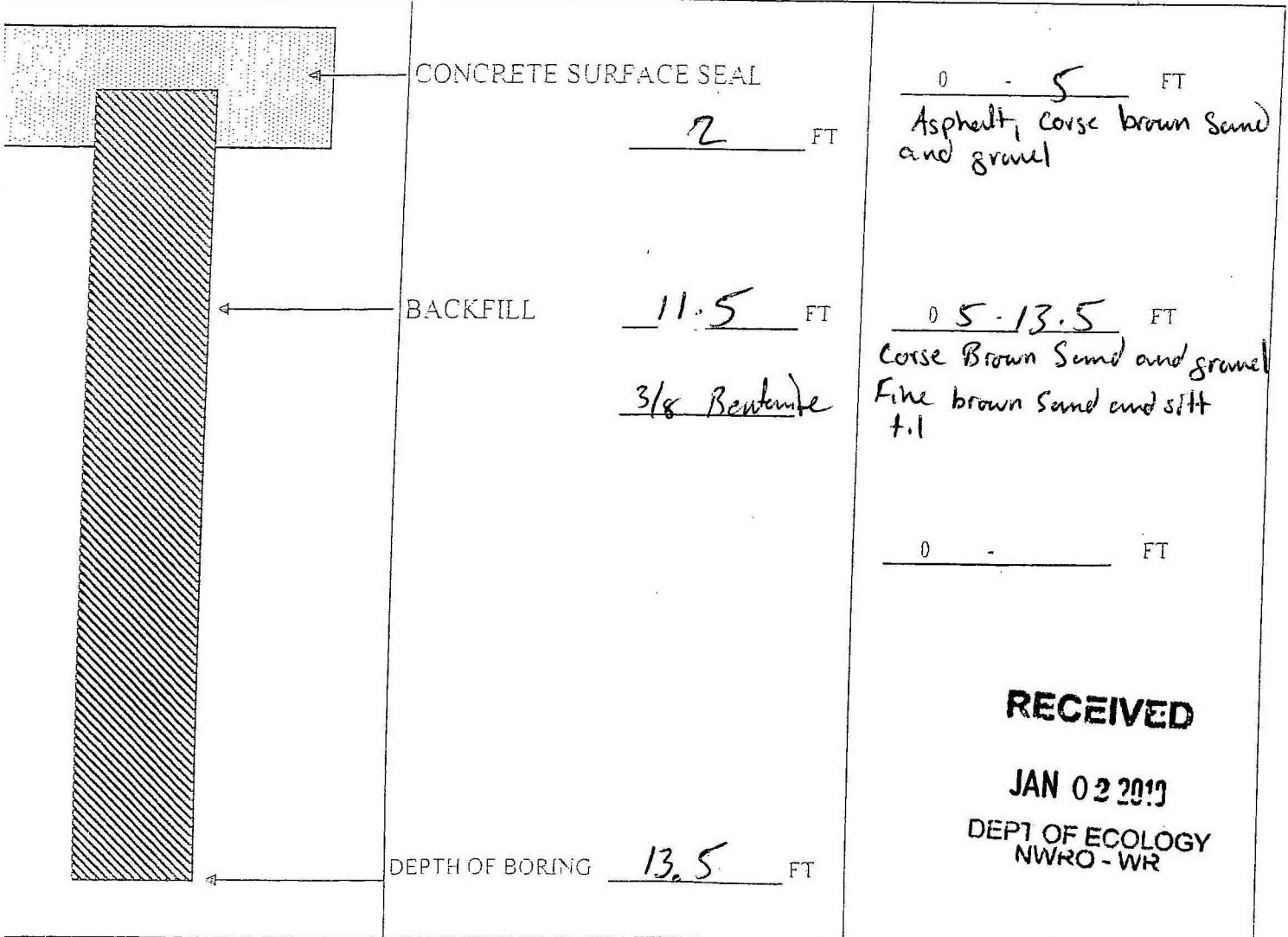
Work/Decommission Completed Date 11/1/17

Signature and License No. _____

Construction/Design

Well Data

Formation Description



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NWRO - WR

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937
 Type of Well SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice
 of Intent Number SE64054/AE45937

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracore

Property Owner Bruce Anderson

Site Address 11612 116th Ave. SE

City Renton County King

Unique Ecology Well ID

EB-9

Tag No. B-2

Location 14 NW 1 SW Sec 28 Twn 23n R 5e or
 EWM
 WWM

WELL CONSTRUCTION CERTIFICATION I constructed and/or accept responsibility for
 construction of this well, and its compliance with all Washington well construction standards
 materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
 still Required) Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Gehmer

Tax Parcel No. _____

Driller/Trainee Signature [Signature]

Cased or Uncased Diameter 2 1/4" Static Level _____

Driller/Trainee License No. 3178

Work/Decommission Start Date 11/17/17

Drillee, licensed drillers' _____

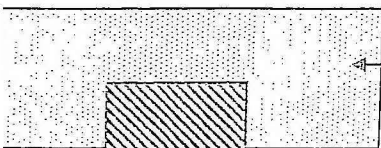
Work/Decommission Completed Date 11/17/17

Signature and License No. _____

Construction/Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

0 - 5 FT
 Fill material gravel
 Fine Brown sand and
 silt

BACKFILL

11 1/2 FT

0.5 - 13 1/2 FT
 Silty Brown till with
 gravels

3/8 Bentonite

DEPTH OF BORING 13 1/2 FT

0 FT

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JAN 02 2019

**DEPT OF ECOLOGY
 NWRO - WR**

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937
 Type of Well SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice
 of Intent Number SE64054/AE45937

Resource Protection

Geotechnical Soil Boring

Property Owner Bruce Anderson

Site Address 11612 116th Ave. SE

City Renton County King

Consulting Firm Terracom

Unique Ecology Well ID B-3 EB-10

Tag No. _____

Location 14 NW 14 SW Sec 28 Twn 23n R 5e or _____
EWM
WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for
 construction of this well, and its compliance with all Washington well construction standards
 materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
 still Required) Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

Driller Trainee Name (Print) L. Fehner

Driller/Trainee Signature [Signature]

Driller/Trainee License No. 3178

Cased or Uncased Diameter 2 1/4" Static Level _____

Work/Decommission Start Date 11/17/17

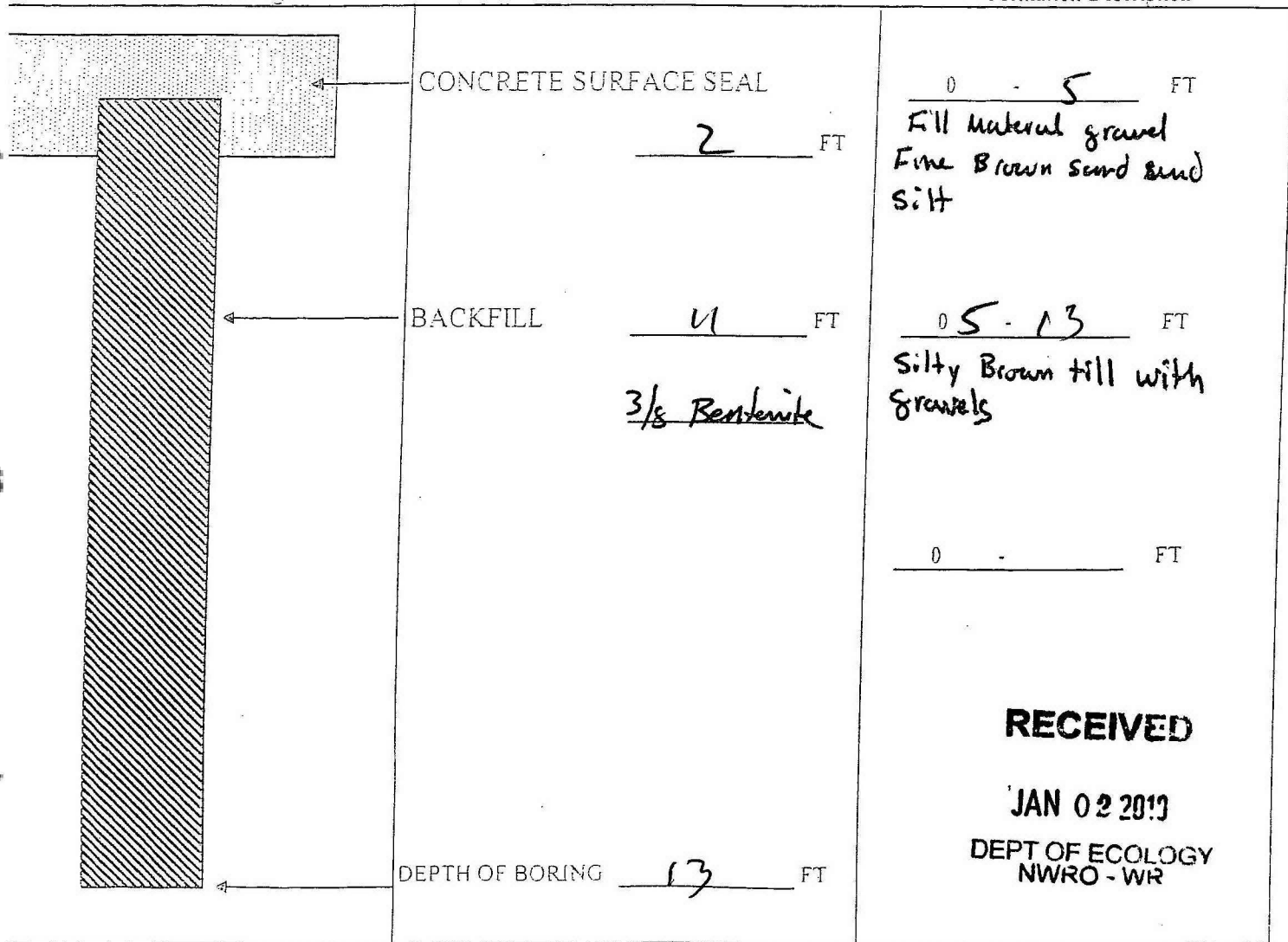
Work/Decommission Completed Date 11/17/17

Trainee, licensed drillers' _____
 Signature and License No. _____

Construction/Design

Well Data

Formation Description



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JAN 02 2018

DEPT OF ECOLOGY
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The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

ISUBMIT ONE WELL REPORT PER WELL INSTALLED.

CURRENT

Notice of Intent No. SE64054
 Type of Well SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice
 of Intent Number SE64054/AE45937

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracom

Unique Ecology Well ID EB-11
 Tag No. B-4

Property Owner Bruce Anderson
 Site Address 11612 116th Ave. SE
 City Renton County King

Location 1-4 NW 1-4 SW Sec 28 Twn 23n R 5e
 EWM or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for
 instruction of this well, and its compliance with all Washington well construction standards
 materials used and the information reported above are true to my best knowledge and belief

Lat/Long (s,t,r Lat Deg _____ Lat Min/Sec _____
 still Required) Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Gehner

Tax Parcel No. _____

Driller/Trainee Signature [Signature]

Cased or Uncased Diameter 2 1/4" Static Level _____

Driller/Trainee License No. 3178

Work/Decommission Start Date 11/17/17

Drill trainee, licensed drillers' _____

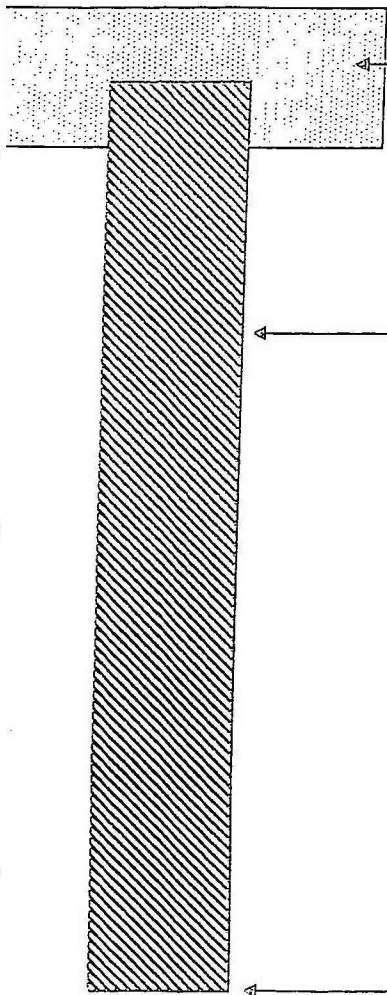
Work/Decommission Completed Date 11/17/17

Signature and License No. _____

Construction/Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

BACKFILL

10 FT

3/8 Bentonite

DEPTH OF BORING 12 FT

0 - 5 FT
 Fill material gravel
 Fine Brown sand and
 silt

0.5 - 12 FT
 Silty Brown till with
 gravels

0 FT

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JAN 02 2019

DEPT OF ECCLGY
 NWRO - WR

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937
 Type of Well SE64054/AE45937

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice
 of Intent Number SE64054/AE45937

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Terracom

Property Owner Bruce Anderson
 Site Address 11612 116th Ave. SE
 City Renton County King

Unique Ecology Well ID EB-12
 Tag No. B-5

Location 1st NW 1st SW Sec 28 Twn 23n R 5e or
 EWM
 WWM

WELL CONSTRUCTION CERTIFICATION. I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
 Long Deg _____ Long Min/Sec _____

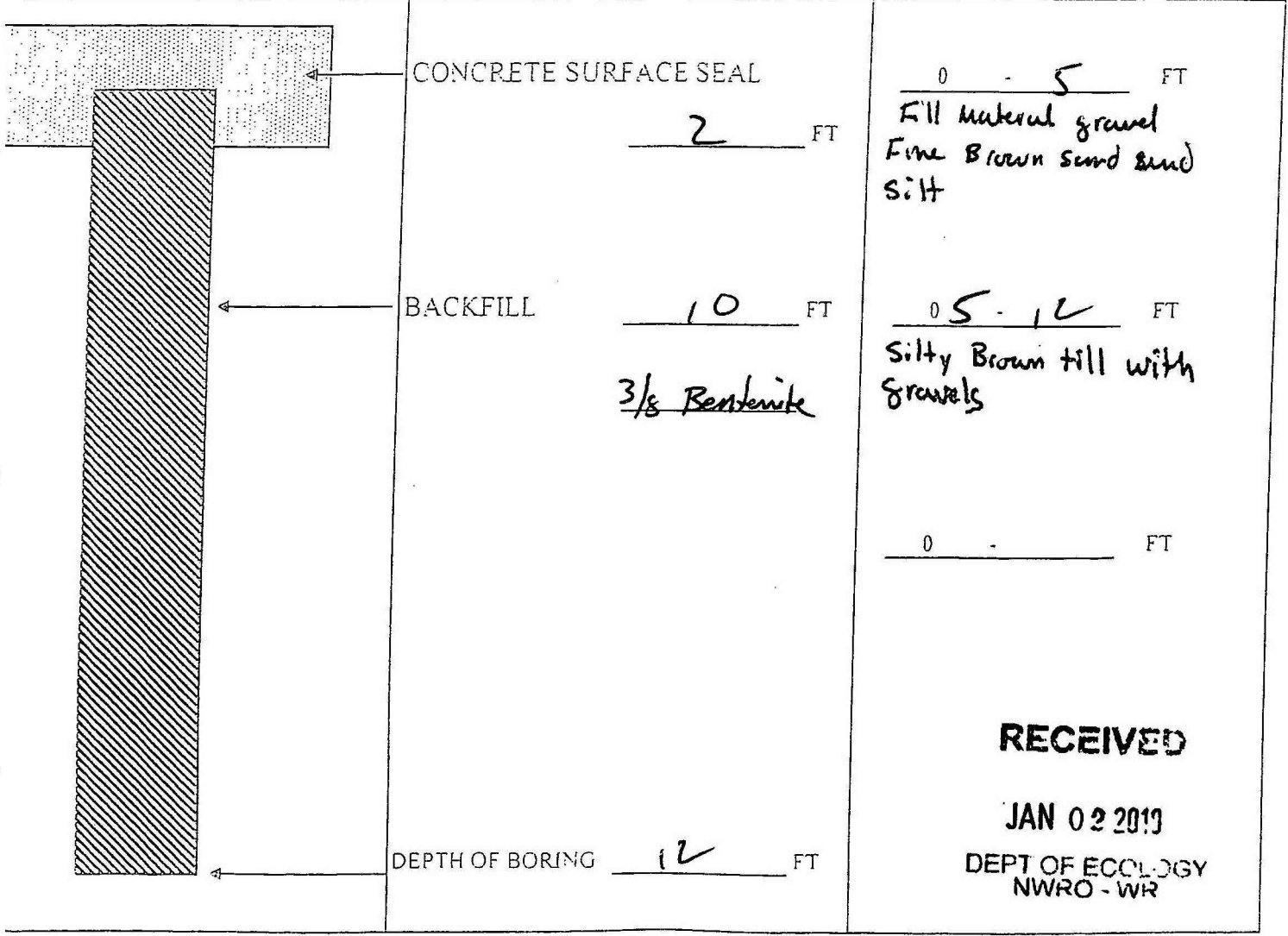
Driller Trainee Name (Print) L. Lehner
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 3178
 Trainee, licensed drillers' _____
 Signature and License No. _____

Tax Parcel No. _____
 Cased or Uncased Diameter 2 1/4" Static Level _____
 Work/Decommission Start Date 11/17/17
 Work/Decommission Completed Date 11/17/17

Construction/Design

Well Data

Formation Description



RECEIVED

JAN 02 2019

DEPT OF ECOLOGY
 NWRO - WR

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054/AE45937
 Type of Well SE64054/AE45937

Construction/Decommission

Construction

Decommission *ORIGINAL INSTALLATION Notice*
 of Intent Number SE64054/AE45937

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracorn

Property Owner Bruce Anderson

Site Address 11612 116th Ave. SE

City Renton County King

Unique Ecology Well ID EB-13
 Tag No. B-6

Location 14 NW 14 SW Sec 28 Twn 23n R. 5e or WWM

WELL CONSTRUCTION CERTIFICATION. I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
 Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Fehner
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 3178

Tax Parcel No. _____

Drillee, licensed drillers' Signature and License No. _____

Cased or Uncased Diameter 2 1/4" Static Level _____

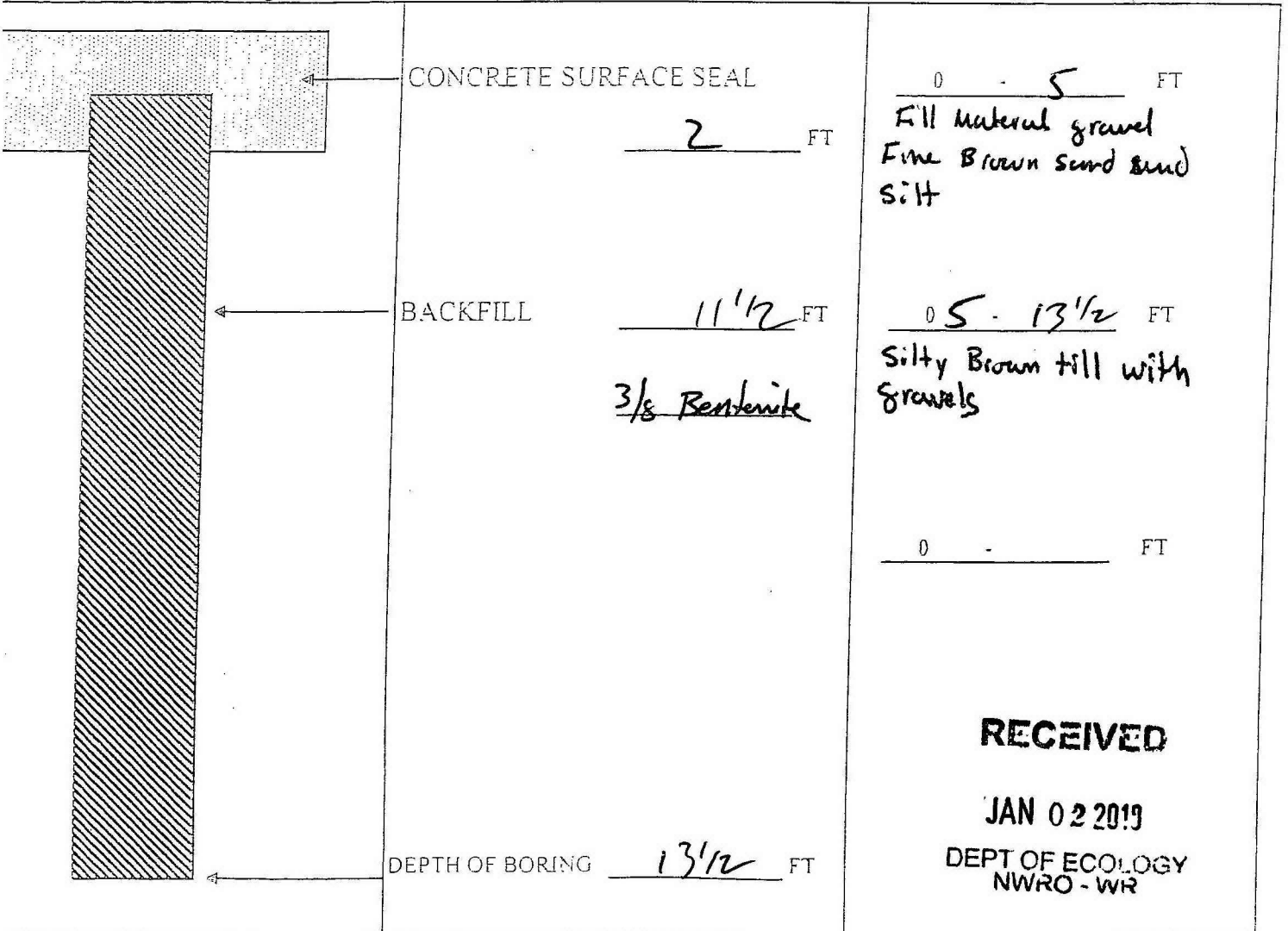
Work/Decommission Start Date 11/17/17

Work/Decommission Completed Date 11/17/17

Construction/Design

Well Data

Formation Description



RECEIVED

JAN 02 2019

DEPT OF ECOLOGY
 NWRO - WR

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE64054
 Type of Well SE64054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice
 of Intent Number SE64054/AE45937

Resource Protection

Geotechnical Soil Boring

Consulting Firm Terracore

Unique Ecology Well ID EB-14
 Tag No. B-7

Property Owner Bruce Anderson
 Site Address 11612 116th Ave. SE
 City Renton County King

Location 14 NW 14 SW Sec 28 Twp 23n R 5e or EWM
 WWM

Lat/Long (s.t.r still Required) Lat Deg _____ Lat Min/Sec _____
 Long Deg _____ Long Min/Sec _____

Tax Parcel No. _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for
 construction of this well, and its compliance with all Washington well construction standards.
 Materials used and the information reported above are true to my best knowledge and belief.

Driller Trainee Name (Print) L. Gehner

Driller/Trainee Signature [Signature]

Driller/Trainee License No. 3178

Drillee, licensed drillers' _____

Signature and License No. _____

Cased or Uncased Diameter 2 1/4" Static Level _____

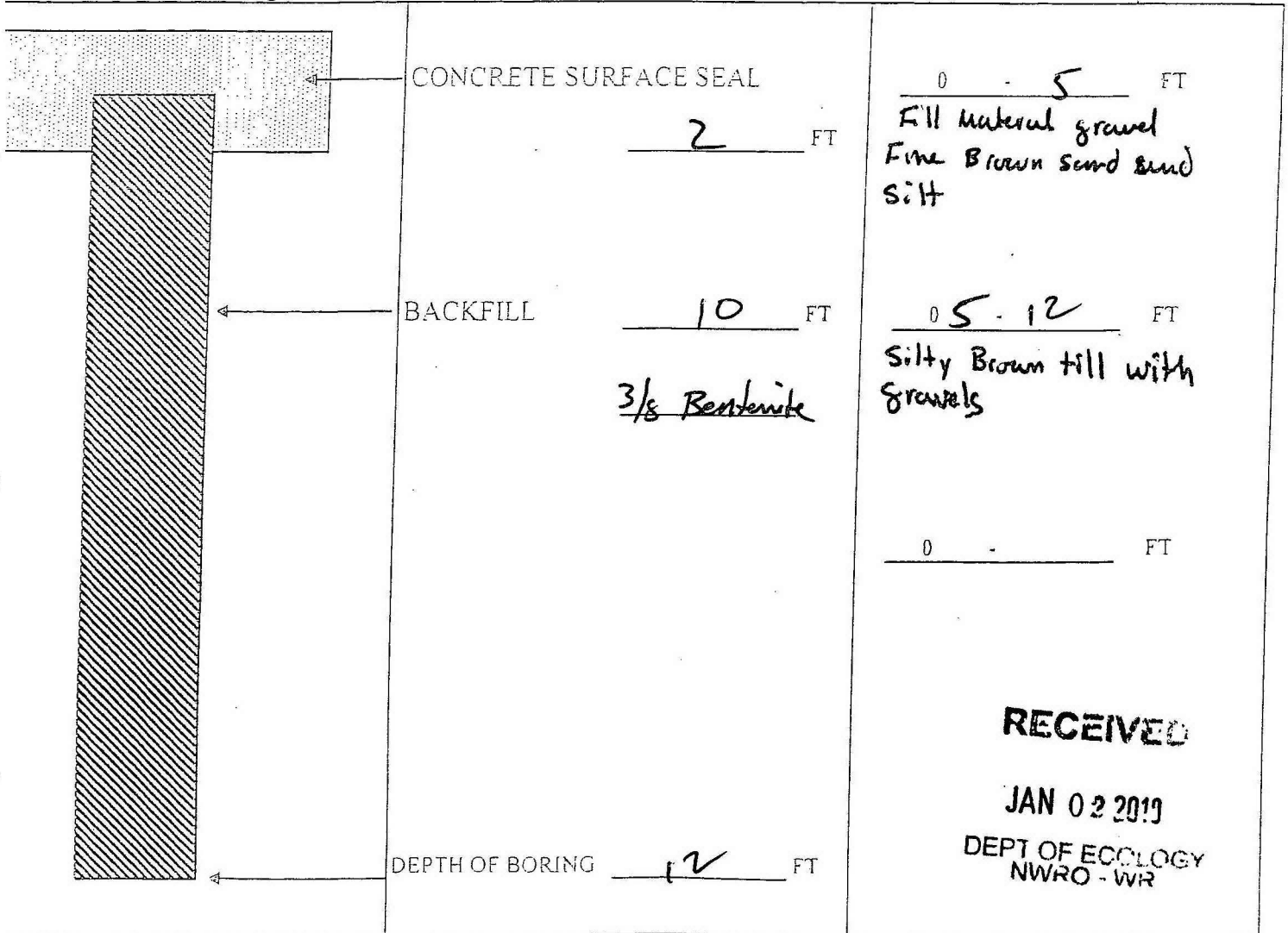
Work/Decommission Start Date 11/17/17

Work/Decommission Completed Date 11/17/17

Construction/Design

Well Data

Formation Description



RECEIVED

JAN 02 2019

DEPT OF ECOLOGY
 NWRO - WR

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

ONLY ONE WELL REPORT PER WELL INSTALLED

CURRENT

Notice of Intent No. SECTION 564054/AE45937
Type of Well SECTION 564054/AE45937

Construction/Decommission

Construction

Decommission ORIGINAL INSTALLATION Notice

of Intent Number 564054/AE45937

Resource Protection

Geotechnical Soil Boring

Property Owner Bruce Anderson

Site Address 16912 116th Ave. SE

City Renton County King

Consulting Firm Terracom

Unique Ecology Well ID EB-15
Tag No. B-8

Location 14 NW 1 SW Sec 28 Twn 23n R 5e EWM or WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s.c.r. still Required) Lat Deg _____ Lat Min/Sec _____
Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Felner

Tax Parcel No _____

Driller/Trainee Signature [Signature]

Cased or Uncased Diameter 2 1/4" Static Level _____

Driller/Trainee License No. 3178

Work Decommission Start Date 11/17/17

Trainee, licensed drillers' _____

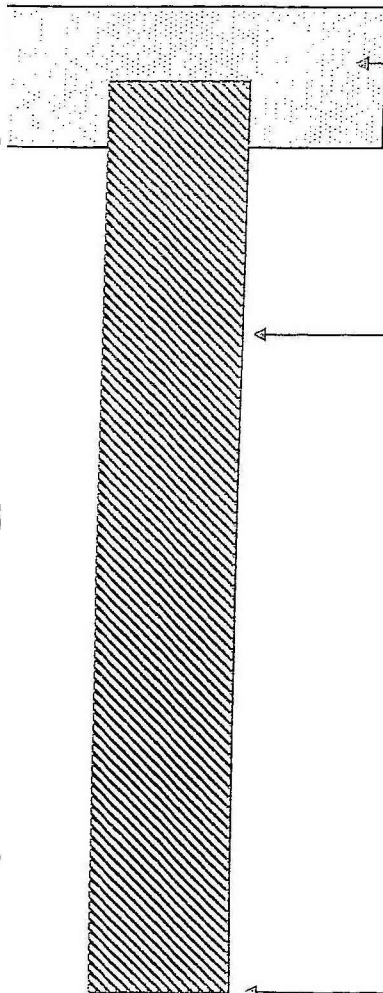
Work Decommission Completed Date 11/17/17

Signature and License No. _____

Construction Design

Well Data

Formation Description



CONCRETE SURFACE SEAL

2 FT

0 - 5 FT
Fill material gravel
Fine Brown sand and
silt

BACKFILL

10 FT

0.5 - 12 FT
Silty Brown till with
gravels

3/8 Bentonite

DEPTH OF BORING 12 FT

0 FT

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DEPT OF ECOLOGY
NWRO - WR

The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report

RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

CURRENT

Notice of Intent No. SE6404
 Type of Well SE64054/AE45937

Construction/Decommission

Construction
 Decommission ORIGINAL INSTALLATION Notice
 of Intent Number SE64054/AE45937

Resource Protection
 Geotechnical Soil Boring

Consulting Firm Terracom

Property Owner Bruce Anderson
 Site Address 11612 116th Ave. SE
 City Renton County King

Unique Ecology Well ID EB-16
 Tag No. B-1

Location 1-1 NW 1-4 SW Sec 28 Twn 23n R 5e or
 EWM
 WWM

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Lat/Long (s,t,r still Required) Lat Deg _____ Lat Min/Sec _____
 Long Deg _____ Long Min/Sec _____

Driller Trainee Name (Print) L. Felner
 Driller/Trainee Signature [Signature]
 Driller/Trainee License No. 3178
 Trainee, Licensed Drillers' Signature and License No. _____

Tax Parcel No. _____
 Cased or Uncased Diameter 2 1/4" Static Level _____
 Work/Decommission Start Date 11/17/17
 Work/Decommission Completed Date 11/17/17

Construction/Design	Well Data	Formation Description
	CONCRETE SURFACE SEAL <u>2</u> FT	<u>0 - 5</u> FT Fill Material gravel Fine Brown sand and silt
	BACKFILL <u>0</u> FT <u>3/8 Bentonite</u>	<u>0.5 - 6</u> FT Silty Brown till with gravels
	DEPTH OF BORING <u>6</u> FT	<u>0</u> FT

RECEIVED
JAN 02 2019
 DEPT OF ECOLOGY
 NWRO - WR



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER CASCADE CLEANERS
 PROJECT NUMBER: 11185912
 CLIENT: MBA CASCADE PLAZA, LLC
 LOCATION: 16912 116TH AVENUE SE, RENTON, WASHINGTON

HOLE DESIGNATION: MW-6A
 DATE COMPLETED: November 15, 2018
 DRILLING METHOD: HSA
 FIELD PERSONNEL: M. NOLL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	SM-SILTY SAND, trace fine gravel, medium dense, tan, moist, no odor - very dense at 10.0ft BGS - gray at 14.0ft BGS END OF BOREHOLE @ 15.0ft BGS	15.00	<p style="font-size: small;"> CONCRETE 2" PVC WELL CASING BENTONITE 6-8" BOREHOLE 2" PVC WELL SCREEN SAND PACK SLOUGH </p> <p style="font-size: small;"> <u>WELL DETAILS</u> Screened interval: 4.59 to 14.59ft BGS Length: 10ft Diameter: 2in Slot Size: 0.020 Material: PVC Seal: 1.00 to 2.59ft BGS Material: BENTONITE Sand Pack: 2.59 to 14.59ft BGS Material: SAND </p>					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 11185912-WI.GPJ GHD_Corp 12/4/18



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER CASCADE CLEANERS
 PROJECT NUMBER: 11185912
 CLIENT: MBA CASCADE PLAZA, LLC
 LOCATION: 16912 116TH AVENUE SE, RENTON, WASHINGTON

HOLE DESIGNATION: MW-6B
 DATE COMPLETED: November 15, 2018
 DRILLING METHOD: HSA
 FIELD PERSONNEL: M. NOLL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N VALUE	PID (ppm)
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 2px;">2</div> <div style="margin-bottom: 2px;">4</div> <div style="margin-bottom: 2px;">6</div> <div style="margin-bottom: 2px;">8</div> <div style="margin-bottom: 2px;">10</div> <div style="margin-bottom: 2px;">12</div> <div style="margin-bottom: 2px;">14</div> <div style="margin-bottom: 2px;">16</div> <div style="margin-bottom: 2px;">18</div> <div style="margin-bottom: 2px;">20</div> <div style="margin-bottom: 2px;">22</div> <div style="margin-bottom: 2px;">24</div> <div style="margin-bottom: 2px;">26</div> <div style="margin-bottom: 2px;">28</div> <div style="margin-bottom: 2px;">30</div> <div style="margin-bottom: 2px;">32</div> <div style="margin-bottom: 2px;">34</div> <div style="margin-bottom: 2px;">36</div> <div style="margin-bottom: 2px;">38</div> <div style="margin-bottom: 2px;">40</div> <div style="margin-bottom: 2px;">42</div> <div style="margin-bottom: 2px;">44</div> </div>	<p>SM-SILTY SAND, trace fine gravel, medium dense, tan, moist, no odor</p> <p>- very dense at 10.0ft BGS</p> <p>- gray at 14.0ft BGS</p> <p>NO RECOVERY</p> <p>END OF BOREHOLE @ 35.3ft BGS</p>	<p>35.00</p> <p>35.25</p>	<p>CONCRETE</p> <p>2" PVC WELL CASING</p> <p>BENTONITE</p> <p>6-8" BOREHOLE</p> <p>2" PVC WELL SCREEN</p> <p>SAND PACK</p> <p>SLOUGH</p>	<p>1HSA</p> <p>MW-6B-10 2HSA</p> <p>3HSA</p> <p>MW-6B-20 4HSA</p> <p>5HSA</p> <p>6HSA</p> <p>7HSA</p>	<p>100</p> <p>91</p> <p>100</p> <p>100</p> <p>100</p> <p>83</p> <p>0</p>	<p>22</p> <p>50/5"</p> <p>50/6"</p> <p>50/6"</p> <p>50/5"</p> <p>50/6"</p> <p>50/6"</p>	<p><1</p> <p><1</p> <p><1</p> <p><1</p> <p><1</p> <p><1</p> <p><1</p>	

WELL DETAILS
 Screened interval:
 24.40 to 34.40ft BGS
 Length: 10ft
 Diameter: 2in
 Slot Size: 0.020
 Material: PVC
 Seal:
 1.00 to 22.40ft BGS
 Material: BENTONITE
 Sand Pack:
 22.40 to 34.40ft BGS
 Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 11185912-WI.GPJ GHD_Corp 12/4/18



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER CASCADE CLEANERS
 PROJECT NUMBER: 11185912
 CLIENT: MBA CASCADE PLAZA, LLC
 LOCATION: 16912 116TH AVENUE SE, RENTON, WASHINGTON

HOLE DESIGNATION: MW-7A
 DATE COMPLETED: November 15, 2018
 DRILLING METHOD: HSA
 FIELD PERSONNEL: M. NOLL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34	SM-SILTY SAND, with to trace gravel, dense, tan, moist, no odor - very dense at 10.0ft BGS END OF BOREHOLE @ 15.0ft BGS	15.00	<p style="font-size: small;"> CONCRETE 2" PVC WELL CASING BENTONITE 6-8" BOREHOLE 2" PVC WELL SCREEN SAND PACK SLOUGH </p> <p style="font-size: x-small;"> WELL DETAILS Screened interval: 4.50 to 14.50ft BGS Length: 10ft Diameter: 2in Slot Size: 0.020 Material: PVC Seal: 1.00 to 2.50ft BGS Material: BENTONITE Sand Pack: 2.50 to 14.50ft BGS Material: SAND </p>					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 11185912-WI.GPJ GHD_Corp 12/4/18



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER CASCADE CLEANERS
 PROJECT NUMBER: 11185912
 CLIENT: MBA CASCADE PLAZA, LLC
 LOCATION: 16912 116TH AVENUE SE, RENTON, WASHINGTON

HOLE DESIGNATION: MW-7B
 DATE COMPLETED: November 16, 2018
 DRILLING METHOD: HSA
 FIELD PERSONNEL: M. NOLL

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft	MONITORING WELL	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
2	SM-SILTY SAND, with to trace gravel, dense, tan, moist, no odor		CONCRETE						
4			2" PVC WELL CASING						
6			BENTONITE	1HSA	X	67	45	<1	
8			6-8" BOREHOLE						
10	- very dense at 10.0ft BGS			2HSA	X	100	50/5"	1.2	
12									
14									
16				3HSA	X	100	50/5"	6.2	
18									
20	- gray at 20.0ft BGS			4HSA	X	75	50/4"	<1	
22									
24	- increase in sand content at 25.0ft BGS			MW-7B-25 5HSA	X	100	50/4"	6.5	
26			2" PVC WELL SCREEN						
28									
30	- wet at 30.0ft BGS		SAND PACK	MW-7B-30 6HSA	X	100	50/6"	43.9	
32									
34									
36	CL/ML-CLAY/SILT, trace fine sand, gray, wet to saturated	35.00	SLOUGH	7HSA	X	83	50/6"	15	
38	END OF BOREHOLE @ 35.5ft BGS	35.50							
40									
42									
44									

WELL DETAILS
 Screened interval:
 24.60 to 34.60ft BGS
 Length: 10ft
 Diameter: 2in
 Slot Size: 0.020
 Material: PVC
 Seal:
 2.00 to 22.60ft BGS
 Material: BENTONITE
 Sand Pack:
 22.60 to 34.60ft BGS
 Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 11185912-WI.GPJ GHD_Corp 12/4/18



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Cascade Cleaners
 PROJECT NUMBER: 11215715
 CLIENT: MBA Cascade Plaza LLC
 LOCATION: Renton, WA

HOLE DESIGNATION: MW-8A
 DATE COMPLETED: 17 August 2020
 DRILLING METHOD: HSA
 FIELD PERSONNEL: E. Blakeway

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITOR INSTALLATION	SAMPLE			
				NUMBER	INTERVAL	REC (%)	'N' Value
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">2</div> <div style="margin-bottom: 10px;">4</div> <div style="margin-bottom: 10px;">6</div> <div style="margin-bottom: 10px;">8</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">12</div> <div style="margin-bottom: 10px;">14</div> <div style="margin-bottom: 10px;">16</div> <div style="margin-bottom: 10px;">18</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">22</div> <div style="margin-bottom: 10px;">24</div> <div style="margin-bottom: 10px;">26</div> <div style="margin-bottom: 10px;">28</div> <div style="margin-bottom: 10px;">30</div> <div style="margin-bottom: 10px;">32</div> <div style="margin-bottom: 10px;">34</div> </div>	<p>ASPHALT</p> <p>SM-SILTY SAND, with gravel, fine to coarse grained, brown, moist, no odor - roots and wood debris at 2.00ft BGS</p> <p>- wet at 6.00ft BGS</p> <p>- grading to moist at 9.00ft BGS</p> <p>- gray/brown at 14.00ft BGS</p> <p>END OF BOREHOLE @ 15.00ft BGS</p> <p>Well Tag ID BLY369</p> <p>Note: Well was dry after installation</p>	<p>0.30</p> <p>15.00</p>	<p>Concrete</p> <p>Bentonite</p> <p>Sand Pack</p> <p>Well Screen</p>				
				<p><u>WELL DETAILS</u></p> <p>Screened interval: 5.00 to 15.00ft BGS</p> <p>Length: 10ft</p> <p>Diameter: 2in</p> <p>Slot Size: #10</p> <p>Material: PVC</p> <p>Sand Pack: 3.00 to 15.00ft BGS</p> <p>Material: Silica</p>			

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: C:\USERS\CACHILDS\DESKTOP\11215715.GPJ Library File: GHD_ENV07-29-2020.GLB Report: OVERBURDEN LOG Date: 6/10/20



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Cascade Cleaners
 PROJECT NUMBER: 11215715
 CLIENT: MBA Cascade Plaza LLC
 LOCATION: Renton, WA

HOLE DESIGNATION: MW-8B
 DATE COMPLETED: 17 August 2020
 DRILLING METHOD: HSA/Direct Push
 FIELD PERSONNEL: E. Blakeway

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITOR INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)	
0.30	ASPHALT	0.30	Concrete						
2	SM-SILTY SAND, with gravel, fine to coarse grained, brown, moist, no odor - roots and wood debris at 2.00ft BGS			1A/K					
6	- wet at 6.00ft BGS			MW-8B-5					18.2
8	- grading to moist at 9.00ft BGS			MW-8B-7 1DP					71.2
10									12.0
12									15.0
14	- gray/brown at 14.00ft BGS		Bentonite	2DP					19.8
16									21.7
20	- gray at 20.00ft BGS			MW-8B-20 1HSA			50		5.3
24	- No recovery at 25.00ft BGS		Sand Pack	2HSA			50		
27	- wet and increase in sand content at 27.00ft BGS			MW-8B-27 3HSA			30		8.3
30			Well Screen	4HSA			39		8.1
32									
34									

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼
 CHEMICAL ANALYSIS ○


File: C:\USERS\CACHILDS\DESKTOP\11215715.GPJ Library File: GHD_ENV07-29-2020.GLB Report: OVERBURDEN LOG Date: 6/10/20



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Cascade Cleaners
 PROJECT NUMBER: 11215715
 CLIENT: MBA Cascade Plaza LLC
 LOCATION: Renton, WA

HOLE DESIGNATION: MW-8B
 DATE COMPLETED: 17 August 2020
 DRILLING METHOD: HSA/Direct Push
 FIELD PERSONNEL: E. Blakeway

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	MONITOR INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
36	ML-SILT, gray, wet, no odor	35.00		MW-8B-35 5HSA	X		31	11.3
	END OF BOREHOLE @ 36.50ft BGS	36.50						
38	Well Tag ID BLY370							
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
 WATER FOUND ▼
 CHEMICAL ANALYSIS ○

File: C:\USERS\CACHILDS\DESKTOP\11215715.GPJ Library File: GHD_ENV07-29-2020.GLB Report: OVERBURDEN LOG Date: 6/10/20

Appendix E

Laboratory Analytical Reports



November 7, 2017

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

Dear Mr. Noll,

On November 2nd, 22 samples were received by our laboratory and assigned our laboratory project number EV17110014. The project was identified as your 81177585. 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: Mike Noll
 CLIENT PROJECT: 81177585
 CLIENT SAMPLE ID: EB-1-5

DATE: 11/7/2017
 ALS JOB#: EV17110014
 ALS SAMPLE#: EV17110014-01
 DATE RECEIVED: 11/02/2017
 COLLECTION DATE: 11/1/2017 1:25:00 PM
 WDOE ACCREDITATION: 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	11/06/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/06/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Tetrachloroethylene	EPA-8260	41	1.0	100	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/06/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-01
CLIENT SAMPLE ID	EB-1-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 1:25:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/06/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/06/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	11/03/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	98.8	11/06/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	94.5	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	93.9	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-02
CLIENT SAMPLE ID	EB-1-12	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 1:38:00 PM
		WDOE ACCREDITATION:	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	11/02/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/02/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Tetrachloroethylene	EPA-8260	14	1.0	100	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/02/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-02
CLIENT SAMPLE ID	EB-1-12	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 1:38:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/02/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	105	11/02/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	112	11/02/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	95.3	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-03
CLIENT SAMPLE ID	EB-2-9	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:31:00 PM
		WDOE ACCREDITATION:	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	11/02/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/02/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Tetrachloroethylene	EPA-8260	32	1.0	100	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/02/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-03
CLIENT SAMPLE ID	EB-2-9	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:31:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/02/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.4	11/02/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	98.9	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	106	11/02/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	94.1	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-04
CLIENT SAMPLE ID	EB-2-14	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:55:00 PM
		WDOE ACCREDITATION:	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	11/02/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/02/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trichloroethene	EPA-8260	0.30	0.010	1	MG/KG	11/06/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Tetrachloroethylene	EPA-8260	97	1.0	100	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/02/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-04
CLIENT SAMPLE ID	EB-2-14	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:55:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/02/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/02/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.6	11/02/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	98.6	11/03/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	93.5	11/06/2017	DLC
4-Bromofluorobenzene	EPA-8260	134	11/02/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	93.9	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	92.8	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-06
CLIENT SAMPLE ID	EB-3-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:04:00 PM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	3.2	0.10	10	MG/KG	11/06/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-06
CLIENT SAMPLE ID	EB-3-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:04:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	98.4	11/03/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	96.2	11/06/2017	DLC
4-Bromofluorobenzene	EPA-8260	102	11/03/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	90.3	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-07
CLIENT SAMPLE ID	EB-3-12	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:16:00 PM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	3.7	0.10	10	MG/KG	11/06/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-07
CLIENT SAMPLE ID	EB-3-12	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 12:16:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	101	11/03/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	93.1	11/06/2017	DLC
4-Bromofluorobenzene	EPA-8260	119	11/03/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	93.5	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-08
CLIENT SAMPLE ID	EB-4-4.5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 10:44:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	0.011	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-08
CLIENT SAMPLE ID	EB-4-4.5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 10:44:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	97.9	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	93.6	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-10
CLIENT SAMPLE ID	EB-4-12	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 11:01:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	2.7	0.10	10	MG/KG	11/06/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-10
CLIENT SAMPLE ID	EB-4-12	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 11:01:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.4	11/03/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	96.9	11/06/2017	DLC
4-Bromofluorobenzene	EPA-8260	102	11/03/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	93.1	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-11
CLIENT SAMPLE ID	EB-5-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 9:27:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-11
CLIENT SAMPLE ID	EB-5-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 9:27:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.5	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	97.5	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-13
CLIENT SAMPLE ID	EB-5-13	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 9:44:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	0.022	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-13
CLIENT SAMPLE ID	EB-5-13	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 9:44:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	97.0	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	95.8	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-14
CLIENT SAMPLE ID	EB-6-6	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 2:02:00 PM
		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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-14
CLIENT SAMPLE ID	EB-6-6	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 2:02:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	97.3	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	98.0	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-15
CLIENT SAMPLE ID	EB-6-13	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 2:05:00 PM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	1.2	0.010	1	MG/KG	11/06/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-15
CLIENT SAMPLE ID	EB-6-13	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 2:05:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	94.6	11/03/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	96.3	11/06/2017	DLC
4-Bromofluorobenzene	EPA-8260	114	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	93.1	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-16
CLIENT SAMPLE ID	EB-7-6	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 11:24:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-16
CLIENT SAMPLE ID	EB-7-6	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 11:24:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.2	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	98.4	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-18
CLIENT SAMPLE ID	EB-7-13	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 11:39:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	0.021	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-18
CLIENT SAMPLE ID	EB-7-13	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 11:39:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	98.0	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	97.8	11/03/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-19
CLIENT SAMPLE ID	EB-8-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 10:11:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	0.23	0.010	1	MG/KG	11/06/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-19
CLIENT SAMPLE ID	EB-8-5	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 10:11:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	98.7	11/03/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	93.5	11/06/2017	DLC
4-Bromofluorobenzene	EPA-8260	103	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	92.7	11/06/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-21
CLIENT SAMPLE ID	EB-8-11	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 10:23:00 AM
		WDOE ACCREDITATION:	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	11/03/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/03/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/03/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV17110014
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110014-21
CLIENT SAMPLE ID	EB-8-11	DATE RECEIVED:	11/02/2017
		COLLECTION DATE:	11/1/2017 10:23:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/03/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/03/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.2	11/03/2017	DLC
4-Bromofluorobenzene	EPA-8260	98.9	11/03/2017	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: Mike Noll
 CLIENT PROJECT: 81177585

DATE: 11/7/2017
 ALS SDG#: EV17110014
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-110217S - Batch 121867 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	11/02/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Toluene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	11/02/2017	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/7/2017
		ALS SDG#:	EV17110014
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Mike Noll		
CLIENT PROJECT:	81177585		

LABORATORY BLANK RESULTS

MB-110217S - Batch 121867 - Soil by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	11/02/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	11/02/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	11/02/2017	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	DATE:	11/7/2017
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV17110014
CLIENT PROJECT:	81177585	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 121867 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,1-Dichloroethene - BS	EPA-8260	91.1			73	138	11/02/2017	DLC
1,1-Dichloroethene - BSD	EPA-8260	93.7	3		73	138	11/02/2017	DLC
Trichloroethene - BS	EPA-8260	91.8			75	136	11/02/2017	DLC
Trichloroethene - BSD	EPA-8260	92.2	1		75	136	11/02/2017	DLC
Toluene - BS	EPA-8260	87.9			76	134	11/02/2017	DLC
Toluene - BSD	EPA-8260	88.1	0		76	134	11/02/2017	DLC
Chlorobenzene - BS	EPA-8260	89.1			79	128	11/02/2017	DLC
Chlorobenzene - BSD	EPA-8260	87.2	2		79	128	11/02/2017	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# _____ (Laboratory Use Only)

EV17110014

Date 11-1-2017 Page 1 Of 3

PROJECT ID: 8177585					ANALYSIS REQUESTED												OTHER (Specify)				
REPORT TO COMPANY: Terracon					<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"/> BTEX by EPA 8260 <input type="checkbox"/> <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> <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"/> <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pri Pol <input type="checkbox"/> TAL <input type="checkbox"/> <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 <input type="checkbox"/>	ADDRESS: 21905 64th Ave W Suite 100 Mountlake Terrace WA 98043		PHONE: (425) 771-3304 P.O. #:		E-MAIL: mike.noll@terracon.com		INVOICE TO COMPANY:		ATTENTION:		ADDRESS:		HOLD PID (PPM) NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?			
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																	
1. EB-1-5	11-1-17	1325	Soil	1															2079	4	
2. EB-1-12	↓	1338	↓	2															8.6	4	
3. EB-2-9		1231		3															69.2	4	
4. EB-2-14		1255		4															79.5	4	
5. EB-2-15		1256		5		-X om													X	229.4	
6. EB-3-5		1204		6															11.1	4	
7. EB-3-12		1216		7															2.8	4	
8. EB-4-4.5		1044		8															1.8	4	
9. EB-4-9		1050		9	-X om												X	4.6			
10. EB-4-12		11-1-17		1101	Soil	10													2.7	4	

SPECIAL INSTRUCTIONS: Per Terracon notional contract (5-7 days)

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: Natalie Baker, Terracon, 11/1/17, 12:00
 Received By: Trent Tolton, ALS, 11/21/17, 12:00
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis
 Standard 5 3 2 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 Standard 5 3 1 SAME DAY
 OTHER: _____
 Specify: _____

*Turnaround request less than standard may incur Rush Charges



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)

EN17110014

Date 11-1-2017 Page 2 of 3

PROJECT ID: <u>81177585</u>					ANALYSIS REQUESTED													OTHER (Specify)					
REPORT TO COMPANY: <u>Terracon</u>					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/>	MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/>	Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pri Pol <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?		
PROJECT MANAGER: <u>Michael Noll</u>																							
ADDRESS: <u>21905 64th Ave W Suite 100</u>																							
<u>Mountlake Terrace WA 98043</u>																							
PHONE: <u>(425) 771-3304</u> P.O. #:																							
E-MAIL: <u>mike.noll@terracon.com</u>																							
INVOICE TO COMPANY:																							
ATTENTION:																							
ADDRESS:																							
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																			
1. EB-5-5	11/1/17	0927	11	S					X														
2. EB-5-10		0943	12						X <u>am</u>											X			
3. EB-5-13		0944	13						X														
4. EB-6-6		1402	14						X														
5. EB-6-13		1405	15						X														
6. EB-7-6		1124	16						X														
7. EB-7-11		1138	17						X <u>am</u>											X			
8. EB-7-13		1139	18						X														
9. EB-8-5		1011	19						X														
10. EB-8-10		1018	20						X <u>am</u>											X			

SPECIAL INSTRUCTIONS: Per Terracon Material Contract (5-7 days)

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] Natalie Baker, Terracon, 11/2/17 1200

Received By: [Signature] Trent Tollen, ALS, 11/2/17, 1200

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

OTHER: _____

Specify: _____

Organic, Metals & Inorganic Analysis

Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 1 SAME DAY

*Turnaround request less than standard may incur Rush Charges



November 28, 2017

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

Dear Mr. Swart,

On November 17th, 21 samples were received by our laboratory and assigned our laboratory project number EV17110129. The project was identified as your 81177585. 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: Lucas Swart
 CLIENT PROJECT: 81177585
 CLIENT SAMPLE ID: EB-9-5

DATE: 11/28/2017
 ALS JOB#: EV17110129
 ALS SAMPLE#: EV17110129-01
 DATE RECEIVED: 11/17/2017
 COLLECTION DATE: 11/17/2017 10:01:00 AM
 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	0.058	1	MG/KG	11/22/2017	DLC
Chloromethane	EPA-8260	U	0.035	1	MG/KG	11/22/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/22/2017	DLC
Bromomethane	EPA-8260	U	0.029	1	MG/KG	11/22/2017	DLC
Chloroethane	EPA-8260	U	0.035	1	MG/KG	11/22/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.037	1	MG/KG	11/22/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.031	1	MG/KG	11/22/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/22/2017	DLC
Methylene Chloride	EPA-8260	U	0.073	1	MG/KG	11/22/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.035	1	MG/KG	11/22/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.035	1	MG/KG	11/22/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.17	0.038	1	MG/KG	11/22/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.036	1	MG/KG	11/22/2017	DLC
Bromochloromethane	EPA-8260	U	0.062	1	MG/KG	11/22/2017	DLC
Chloroform	EPA-8260	U	0.036	1	MG/KG	11/22/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.032	1	MG/KG	11/22/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.032	1	MG/KG	11/22/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/22/2017	DLC
Trichloroethene	EPA-8260	0.87	0.010	1	MG/KG	11/22/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.033	1	MG/KG	11/22/2017	DLC
Dibromomethane	EPA-8260	U	0.041	1	MG/KG	11/22/2017	DLC
Bromodichloromethane	EPA-8260	U	0.036	1	MG/KG	11/22/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.039	1	MG/KG	11/22/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.038	1	MG/KG	11/22/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.039	1	MG/KG	11/22/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.038	1	MG/KG	11/22/2017	DLC
Tetrachloroethylene	EPA-8260	2500	1.00E+02	1.00E+04	MG/KG	11/22/2017	DLC
Dibromochloromethane	EPA-8260	U	0.056	1	MG/KG	11/22/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/22/2017	DLC
Chlorobenzene	EPA-8260	U	0.039	1	MG/KG	11/22/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	0.25	0.030	1	MG/KG	11/22/2017	DLC
Bromoform	EPA-8260	U	0.042	1	MG/KG	11/22/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.040	1	MG/KG	11/22/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.042	1	MG/KG	11/22/2017	DLC
Bromobenzene	EPA-8260	U	0.040	1	MG/KG	11/22/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.040	1	MG/KG	11/22/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.058	1	MG/KG	11/22/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.041	1	MG/KG	11/22/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-01
CLIENT SAMPLE ID	EB-9-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:01:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	0.038	1	MG/KG	11/22/2017	DLC
1,2-Dichlorobenzene	EPA-8260	U	0.041	1	MG/KG	11/22/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/22/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.036	1	MG/KG	11/22/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.042	1	MG/KG	11/22/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.038	1	MG/KG	11/22/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 10000X Dilution	EPA-8260	100	11/22/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	110	11/22/2017	DLC
4-Bromofluorobenzene 10000X Dilution	EPA-8260	92.6	11/22/2017	DLC
4-Bromofluorobenzene	EPA-8260	94.5	11/22/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-03
CLIENT SAMPLE ID	EB-9-13	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:17:00 AM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	3.6	0.10	10	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-03
CLIENT SAMPLE ID	EB-9-13	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:17:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	105	11/21/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	109	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	104	11/21/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	96.1	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-04
CLIENT SAMPLE ID	EB-10-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:43:00 AM
		WDOE ACCREDITATION:	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	11/20/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	0.91	0.010	1	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-04
CLIENT SAMPLE ID	EB-10-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:43:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/20/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	105	11/20/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	121	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	101	11/20/2017	DLC
4-Bromofluorobenzene	EPA-8260	93.8	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-06
CLIENT SAMPLE ID	EB-10-12	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:55:00 AM
		WDOE ACCREDITATION:	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	11/20/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	0.020	0.010	1	MG/KG	11/20/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-06
CLIENT SAMPLE ID	EB-10-12	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 10:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/20/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	11/20/2017	DLC
4-Bromofluorobenzene	EPA-8260	102	11/20/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-07
CLIENT SAMPLE ID	EB-11-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 11:20:00 AM
		WDOE ACCREDITATION:	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	11/20/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	4.1	0.10	10	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-07
CLIENT SAMPLE ID	EB-11-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 11:20:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/20/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	100	11/20/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	108	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	102	11/20/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	95.2	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-08
CLIENT SAMPLE ID	EB-11-12	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 11:29:00 AM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	16	0.10	10	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-08
CLIENT SAMPLE ID	EB-11-12	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 11:29:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	105	11/21/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	109	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	100	11/21/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	93.1	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-09
CLIENT SAMPLE ID	EB-12-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 11:51:00 AM
		WDOE ACCREDITATION:	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	11/20/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	8.6	0.10	10	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-09
CLIENT SAMPLE ID	EB-12-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 11:51:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/20/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.0	11/20/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	107	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	103	11/20/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	93.2	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-11
CLIENT SAMPLE ID	EB-12-12	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 12:09:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	17	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-11
CLIENT SAMPLE ID	EB-12-12	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 12:09:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.2	11/21/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	106	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	119	11/21/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	92.7	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-12
CLIENT SAMPLE ID	EB-13-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 12:33:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.014	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	16	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-12
CLIENT SAMPLE ID	EB-13-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 12:33:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104	11/21/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	108	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	101	11/21/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	97.9	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-13
CLIENT SAMPLE ID	EB-13-13	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 12:46:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	32	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-13
CLIENT SAMPLE ID	EB-13-13	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 12:46:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	11/21/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	107	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	108	11/21/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	95.0	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-14
CLIENT SAMPLE ID	EB-14-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 1:08:00 PM
		WDOE ACCREDITATION:	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	11/20/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	3.4	0.10	10	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-14
CLIENT SAMPLE ID	EB-14-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 1:08:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/20/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104	11/20/2017	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	107	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	111	11/20/2017	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	96.9	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-16
CLIENT SAMPLE ID	EB-14-11	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 1:26:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	20	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-16
CLIENT SAMPLE ID	EB-14-11	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 1:26:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	99.6	11/21/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	102	11/21/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	92.8	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	105	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-17
CLIENT SAMPLE ID	EB-15-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 1:59:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.018	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	0.22	0.010	1	MG/KG	11/22/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	31	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-17
CLIENT SAMPLE ID	EB-15-5	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 1:59:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	108	11/21/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	102	11/21/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	115	11/22/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	96.1	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	109	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	94.6	11/22/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-19
CLIENT SAMPLE ID	EB-15-11	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 2:12:00 PM
		WDOE ACCREDITATION:	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	11/20/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	27	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-19
CLIENT SAMPLE ID	EB-15-11	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 2:12:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/20/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/20/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104	11/20/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	114	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	120	11/20/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	95.4	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-20
CLIENT SAMPLE ID	EB-16-4	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 2:28:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	20	1.0	100	MG/KG	11/21/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-20
CLIENT SAMPLE ID	EB-16-4	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 2:28:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	11/21/2017	DLC
1,2-Dichloroethane-d4	EPA-8260	97.8	11/21/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	96.9	11/21/2017	DLC
4-Bromofluorobenzene	EPA-8260	105	11/21/2017	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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-21
CLIENT SAMPLE ID	EB-16-8	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 2:34:00 PM
		WDOE ACCREDITATION:	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	11/21/2017	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	11/21/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trichloroethene	EPA-8260	0.018	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Tetrachloroethylene	EPA-8260	74	1.0	100	MG/KG	11/22/2017	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	11/21/2017	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV17110129
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV17110129-21
CLIENT SAMPLE ID	EB-16-8	DATE RECEIVED:	11/17/2017
		COLLECTION DATE:	11/17/2017 2:34:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	11/21/2017	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	11/21/2017	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	11/21/2017	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	110	11/22/2017	DLC
4-Bromofluorobenzene	EPA-8260	104	11/21/2017	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	96.0	11/22/2017	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: Lucas Swart
 CLIENT PROJECT: 81177585

DATE: 11/28/2017
 ALS SDG#: EV17110129
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-112017S - Batch 122560 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	11/20/2017	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Toluene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	11/20/2017	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	11/20/2017	DLC



CERTIFICATE OF ANALYSIS

CLIENT: Terracon DATE: 11/28/2017
21905 - 64th Ave W, Suite 100 ALS SDG#: EV17110129
Mountlake Terrace, WA 98043 WDOE ACCREDITATION: C601
CLIENT CONTACT: Lucas Swart
CLIENT PROJECT: 81177585

LABORATORY BLANK RESULTS

MB-112017S - Batch 122560 - Soil by EPA-8260

Table with 7 columns: Compound Name, EPA Method, Detection Status, Unit, Concentration, Date, and Lab Code. Rows include 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo 3-Chloropropane, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, and 1,2,3-Trichlorobenzene.

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	DATE:	11/28/2017
CLIENT CONTACT:	Lucas Swart	ALS SDG#:	EV17110129
CLIENT PROJECT:	81177585	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 122560 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,1-Dichloroethene - BS	EPA-8260	91.9			73	138	11/20/2017	DLC
1,1-Dichloroethene - BSD	EPA-8260	92.0	0		73	138	11/20/2017	DLC
Trichloroethene - BS	EPA-8260	95.4			75	136	11/20/2017	DLC
Trichloroethene - BSD	EPA-8260	92.3	3		75	136	11/20/2017	DLC
Toluene - BS	EPA-8260	94.7			76	134	11/20/2017	DLC
Toluene - BSD	EPA-8260	92.0	3		76	134	11/20/2017	DLC
Chlorobenzene - BS	EPA-8260	101			79	128	11/20/2017	DLC
Chlorobenzene - BSD	EPA-8260	100	1		79	128	11/20/2017	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# (Laboratory Use Only)

EVI17110129

Date 11/17/17 Page 1 Of 3

PROJECT ID: 8177585					ANALYSIS REQUESTED										OTHER (Specify)			
REPORT TO COMPANY: Terracon Consultants					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> FCRA-8 <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	PID NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?	PROJECT MANAGER: Lucas Swart											
ADDRESS: 21905 64th Ave W Ste. 100 Mountlake Terrace, WA 98043																		
PHONE: (425) 771-3304 FAX:																		
P.O. #: E-MAIL: lucas.swart@terracon.com																		
INVOICE TO COMPANY:																		
ATTENTION:																		
ADDRESS:																		
SAMPLE I.D.	DATE	TIME	TYPE	LAB#														
1. EB-9-5	11/17/17	1001	Soil	1											1044	4		
2. EB-9-10		1013		2	hold										3316	1		
3. EB-9-13		1017		3											93.1	4		
4. EB-10-5		1043		4											4.7	4		
5. EB-10-10		1053		5	hold										45.3	1		
6. EB-10-12		1055		6											4.8	4		
7. EB-11-5		1120		7											17.0	4		
8. EB-11-12		1129		8											66.0	4		
9. EB-12-5		1151		9											12.4	4		
10. EB-12-10	11/17/17	1205	soil	10	hold										140.4	1		

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Notate Baker, Terracon, 11/17/17 15:03
 Received By: Trent Tolman, HCS, 11/17/17, 15:03
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER:

Specify: _____

*Turnaround request less than standard may incur Rush Charges



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)

EVI17110129

Date 11/17/17 Page 3 Of 3

PROJECT ID: <u>81177585</u>					ANALYSIS REQUESTED													OTHER (Specify)		
REPORT TO COMPANY: <u>Terracon Consultants</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pri Pol <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	PID NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?														
PROJECT MANAGER: <u>Lucas Swart</u>																				
ADDRESS: <u>21905 64th Ave W Ste. 100</u>																				
<u>Mountlake Terrace WA 98043</u>																				
PHONE: <u>(425) 771-3304</u> P.O. #:																				
E-MAIL: <u>lucas.swart@terracon.com</u>																				
INVOICE TO COMPANY:																				
ATTENTION:																				
ADDRESS:																				
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																
1. EB-15 MB																				
2. EB-16-4	11/17/17	1428	Soil	20														92.34		
3. EB-16-8	11/17/17	1431	Soil	21														116.34		
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Natalie Baker, Terracon, 11/17/17 1503
 Received By: Trant Tolson, ALS, 11/17/17, 1503

2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 OTHER:

Organic, Metals & Inorganic Analysis
 10 Standard 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis
 5 Standard 3 1 SAME DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges



February 1, 2018

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

Dear Mr. Noll,

On January 8th, 1 sample was received by our laboratory and assigned our laboratory project number EV18010035. The project was identified as your 81177585. 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: Mike Noll
 CLIENT PROJECT: 81177585
 CLIENT SAMPLE ID MW-2

DATE: 2/1/2018
 ALS JOB#: EV18010035
 ALS SAMPLE#: EV18010035-01
 DATE RECEIVED: 01/08/2018
 COLLECTION DATE: 1/8/2018 1:25:00 PM
 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	01/09/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Vinyl Chloride	EPA-8260	30	0.20	1	UG/L	01/09/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1-Dichloroethene	EPA-8260	12	2.0	1	UG/L	01/09/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	01/09/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	240	20	10	UG/L	01/09/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Trichloroethene	EPA-8260	310	20	10	UG/L	01/09/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Tetrachloroethylene	EPA-8260	12000	2000	1000	UG/L	01/09/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	01/09/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	2/1/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18010035
CLIENT PROJECT:	81177585	ALS SAMPLE#:	EV18010035-01
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	01/08/2018
		COLLECTION DATE:	1/8/2018 1:25:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	01/09/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	01/09/2018	DLC
Methane	RSK-175	0.030	0.010	1	MG/L	01/19/2018	CCN
Ethane	RSK-175	U	0.010	1	MG/L	01/19/2018	CCN
Ethene	RSK-175	U	0.010	1	MG/L	01/19/2018	CCN
Biochemical Oxygen Demand (BOD)	SM5210B	U	5.0	1	MG/L	01/10/2018	DNT
Chloride	EPA-300.0	9.1	0.092	1	MG/L	01/09/2018	GAP
Nitrate	EPA-300.0	U	0.15	1	MG/L	01/09/2018	GAP
Nitrite	EPA-300.0	U	0.14	1	MG/L	01/09/2018	GAP
Sulfate	EPA-300.0	16	0.26	1	MG/L	01/10/2018	GAP
Iron	EPA-200.8	72	50	1	UG/L	01/12/2018	RAL
Manganese	EPA-200.8	130	2.0	1	UG/L	01/12/2018	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	01/12/2018	RAL
Manganese (Dissolved)	EPA-200.8	130	2.0	1	UG/L	01/12/2018	RAL
Alkalinity	SM2320B	94	0	1	MG/L	01/18/2018	CAS
Sulfide	EPA-376.1	U	0.050	1	MG/L	01/15/2018	CAS
Total Organic Carbon (TOC)	SM5310C	1.3	0.50	1	MG/L	01/25/2018	CAS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
1,2-Dichloroethane-d4	EPA-8260	97.0	01/09/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	97.1	01/09/2018	DLC
1,2-Dichloroethane-d4 1000X Dilution	EPA-8260	97.8	01/09/2018	DLC
4-Bromofluorobenzene	EPA-8260	92.8	01/09/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	97.1	01/09/2018	DLC
4-Bromofluorobenzene 1000X Dilution	EPA-8260	94.9	01/09/2018	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: Mike Noll
 CLIENT PROJECT: 81177585

DATE: 2/1/2018
 ALS SDG#: EV18010035
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-010918W - Batch 124175 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	01/09/2018	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	01/09/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Chloroform	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Toluene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	01/09/2018	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Bromoform	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	2/1/2018
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV18010035
CLIENT PROJECT:	81177585	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-010918W - Batch 124175 - Water by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	01/09/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	01/09/2018	DLC

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

MBLK-R309214 - Batch R309214 - Water by RSK-175

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Methane	RSK-175	U	MG/L	0.010	01/19/2018	CCN
Ethane	RSK-175	U	MG/L	0.010	01/19/2018	CCN
Ethene	RSK-175	U	MG/L	0.010	01/19/2018	CCN

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

MBLK-R308992 - Batch R308992 - Water by SM5210B

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Biochemical Oxygen Demand (BOD)	SM5210B	U	MG/L	5.0	01/10/2018	DNT

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

MBLK-308963 - Batch R308963 - Water by EPA-300.0

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Chloride	EPA-300.0	U	MG/L	0.092	01/09/2018	GAP
Nitrate	EPA-300.0	U	MG/L	0.15	01/09/2018	GAP
Nitrite	EPA-300.0	U	MG/L	0.14	01/09/2018	GAP

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

MBLK-308965 - Batch R308965 - Water by EPA-300.0

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Sulfate	EPA-300.0	U	MG/L	0.26	01/10/2018	GAP

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

MB-011118W - Batch 124280 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Iron	EPA-200.8	U	UG/L	50	01/12/2018	RAL



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	2/1/2018
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV18010035
CLIENT PROJECT:	81177585	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-011118W - Batch 124280 - Water by EPA-200.8

Manganese	EPA-200.8	U	UG/L	2.0	01/12/2018	RAL
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U - Analyte analyzed for but not detected at level above reporting limit.

MB-011118W - Batch 124281 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Iron (Dissolved)	EPA-200.8	U	UG/L	50	01/12/2018	RAL
Manganese (Dissolved)	EPA-200.8	U	UG/L	2.0	01/12/2018	RAL

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

MBLK-R309998 - Batch R309998 - Water by SM2320B

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Alkalinity	SM2320B	U	MG/L	9.0	01/18/2018	CAS

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

MBLK-R310001 - Batch R310001 - Water by EPA-376.1

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Sulfide	EPA-376.1	U	MG/L	0.050	01/15/2018	CAS

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

MBLK-R310002 - Batch R310002 - Water by SM5310C

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	SM5310C	U	MG/L	0.50	01/25/2018	CAS

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: Mike Noll
 CLIENT PROJECT: 81177585

DATE: 2/1/2018
 ALS SDG#: EV18010035
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 124175 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,1-Dichloroethene - BS	EPA-8260	117			72.5	136	01/09/2018	DLC
1,1-Dichloroethene - BSD	EPA-8260	112	5		72.5	136	01/09/2018	DLC
Trichloroethene - BS	EPA-8260	113			74.4	141	01/09/2018	DLC
Trichloroethene - BSD	EPA-8260	109	4		74.4	141	01/09/2018	DLC
Toluene - BS	EPA-8260	113			71.7	139	01/09/2018	DLC
Toluene - BSD	EPA-8260	109	4		71.7	139	01/09/2018	DLC
Chlorobenzene - BS	EPA-8260	112			73	131	01/09/2018	DLC
Chlorobenzene - BSD	EPA-8260	108	3		73	131	01/09/2018	DLC

ALS Test Batch ID: R309214 - Water by RSK-175

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Methane - BS	RSK-175	105			80	120	01/19/2018	CCN
Methane - BSD	RSK-175	94.8	10		80	120	01/19/2018	CCN
Ethane - BS	RSK-175	93.6			80	120	01/19/2018	CCN
Ethane - BSD	RSK-175	95.4	2		80	120	01/19/2018	CCN
Ethene - BS	RSK-175	91.7			80	120	01/19/2018	CCN
Ethene - BSD	RSK-175	93.6	2		80	120	01/19/2018	CCN

ALS Test Batch ID: R308992 - Water by SM5210B

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Biochemical Oxygen Demand (BOD) - BS	SM5210B	99.5			85	115	01/10/2018	DNT
Biochemical Oxygen Demand (BOD) - BSD	SM5210B	104	4		85	115	01/10/2018	DNT

ALS Test Batch ID: R308963 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Chloride - BS	EPA-300.0	94.5			80	120	01/09/2018	GAP
Chloride - BSD	EPA-300.0	95.0	1		80	120	01/09/2018	GAP
Nitrate - BS	EPA-300.0	92.5			80	120	01/09/2018	GAP
Nitrate - BSD	EPA-300.0	95.0	3		80	120	01/09/2018	GAP
Nitrite - BS	EPA-300.0	93.5			80	120	01/09/2018	GAP
Nitrite - BSD	EPA-300.0	92.5	1		80	120	01/09/2018	GAP



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	2/1/2018
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV18010035
CLIENT PROJECT:	81177585	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R308965 - Water by EPA-300.0

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Sulfate - BS	EPA-300.0	101			80	120	01/10/2018	GAP
Sulfate - BSD	EPA-300.0	99.0	2		80	120	01/10/2018	GAP

ALS Test Batch ID: 124280 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Iron - BS	EPA-200.8	104			80	120	01/12/2018	RAL
Iron - BSD	EPA-200.8	102	2		80	120	01/12/2018	RAL
Manganese - BS	EPA-200.8	105			82.2	110	01/12/2018	RAL
Manganese - BSD	EPA-200.8	102	2		82.2	110	01/12/2018	RAL

ALS Test Batch ID: 124281 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Iron (Dissolved) - BS	EPA-200.8	104			80	120	01/12/2018	RAL
Iron (Dissolved) - BSD	EPA-200.8	102	2		80	120	01/12/2018	RAL
Manganese (Dissolved) - BS	EPA-200.8	105			82.2	110	01/12/2018	RAL
Manganese (Dissolved) - BSD	EPA-200.8	102	2		82.2	110	01/12/2018	RAL

ALS Test Batch ID: R309998 - Water by SM2320B

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Alkalinity - BS	SM2320B	100			1	200	01/18/2018	CAS

ALS Test Batch ID: R310001 - Water by EPA-376.1

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Sulfide - BS	EPA-376.1	92.3					01/15/2018	CAS

ALS Test Batch ID: R310002 - Water by SM5310C

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Total Organic Carbon (TOC) - BS	SM5310C	103			80	120	01/25/2018	CAS

CERTIFICATE OF ANALYSIS

APPROVED BY



Laboratory Director



10515 Research Drive
Knoxville, TN 37932
Phone: (865) 573-8188
Fax: (865) 573-8133

Client: Mike Noll
Terracon
21905 64th Ave. W.
Suite 100
Mountlake Terrace, WA 98043

Phone:

Fax:

Identifier: 010PA

Date Rec: 01/09/2018

Report Date: 01/16/2018

Client Project #: 81177585

Client Project Name: Cascade Cleaners

Purchase Order #:

Analysis Requested: CENSUS

Reviewed By:

NOTICE: This report is intended only for the addressee shown above and may contain confidential or privileged information. If the recipient of this material is not the intended recipient or if you have received this in error, please notify Microbial Insights, Inc. immediately. The data and other information in this report represent only the sample(s) analyzed and are rendered upon condition that it is not to be reproduced without approval from Microbial Insights, Inc. Thank you for your cooperation.

Client: Terracon
Project: Cascade Cleaners

MI Project Number: 010PA
Date Received: 01/09/2018

Sample Information

Client Sample ID:	MW-2
Sample Date:	01/08/2018
Units:	cells/mL
Analyst/Reviewer:	JS

Dechlorinating Bacteria

<i>Dehalococcoides</i>	<i>DHC</i>	6.30E+00
tceA Reductase	TCE	<3.00E-01
BAV1 Vinyl Chloride Reductase	BVC	<3.00E-01
Vinyl Chloride Reductase	VCR	<3.00E-01

Legend:

NA = Not Analyzed NS = Not Sampled J = Estimated gene copies below PQL but above LQL I = Inhibited
< = Result not detected

Quality Assurance/Quality Control Data

Samples Received 1/9/2018

Component	Date Prepared	Date Analyzed	Arrival Temperature	Positive Control	Extraction Blank	Negative Control
DHC	01/09/2018	01/16/2018	4 °C	109%	non-detect	non-detect
BVC	01/09/2018	01/16/2018	4 °C	96%	non-detect	non-detect
TCE	01/09/2018	01/16/2018	4 °C	101%	non-detect	non-detect
VCR	01/09/2018	01/16/2018	4 °C	91%	non-detect	non-detect



April 11, 2018

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

Dear Mr. Noll,

On April 5th, 1 sample was received by our laboratory and assigned our laboratory project number EV18040029. The project was identified as your 81177585 Task 2. 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

Glen Perry
Technical Manager



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	4/11/2018
		ALS JOB#:	EV18040029
CLIENT CONTACT:	Mike Noll	ALS SAMPLE#:	EV18040029-01
CLIENT PROJECT:	81177585 Task 2	DATE RECEIVED:	04/05/2018
CLIENT SAMPLE ID	MW-2	COLLECTION DATE:	4/5/2018 10:30:00 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	04/06/2018	CCN
Chloromethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Vinyl Chloride	EPA-8260	38	0.20	1	UG/L	04/06/2018	CCN
Bromomethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Chloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1-Dichloroethene	EPA-8260	8.2	2.0	1	UG/L	04/06/2018	CCN
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	04/06/2018	CCN
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Cis-1,2-Dichloroethene	EPA-8260	430	200	100	UG/L	04/06/2018	CCN
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Chloroform	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Trichloroethene	EPA-8260	340	20	10	UG/L	04/06/2018	CCN
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Dibromomethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Tetrachloroethylene	EPA-8260	11000	2000	1000	UG/L	04/09/2018	CCN
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	04/06/2018	CCN
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Bromoform	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Bromobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	4/11/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18040029
CLIENT PROJECT:	81177585 Task 2	ALS SAMPLE#:	EV18040029-01
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	04/05/2018
		COLLECTION DATE:	4/5/2018 10:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	04/06/2018	CCN
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	04/06/2018	CCN

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	04/06/2018	CCN
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	101	04/06/2018	CCN
1,2-Dichloroethane-d4	EPA-8260	99.9	04/06/2018	CCN
1,2-Dichloroethane-d4 1000X Dilution	EPA-8260	97.0	04/09/2018	CCN
4-Bromofluorobenzene 100X Dilution	EPA-8260	100	04/06/2018	CCN
4-Bromofluorobenzene 10X Dilution	EPA-8260	98.8	04/06/2018	CCN
4-Bromofluorobenzene	EPA-8260	98.3	04/06/2018	CCN
4-Bromofluorobenzene 1000X Dilution	EPA-8260	93.5	04/09/2018	CCN

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: Mike Noll
 CLIENT PROJECT: 81177585 Task 2

DATE: 4/11/2018
 ALS SDG#: EV18040029
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-040618W - Batch 127131 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Chloromethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Vinyl Chloride	EPA-8260	U	UG/L	0.20	04/06/2018	CCN
Bromomethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Chloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Methylene Chloride	EPA-8260	U	UG/L	5.0	04/06/2018	CCN
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Bromochloromethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Chloroform	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Trichloroethene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Dibromomethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Bromodichloromethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Toluene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Dibromochloromethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	04/06/2018	CCN
Chlorobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Bromoform	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Bromobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	4/11/2018
		ALS SDG#:	EV18040029
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Mike Noll		
CLIENT PROJECT:	81177585 Task 2		

LABORATORY BLANK RESULTS

MB-040618W - Batch 127131 - Water by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	04/06/2018	CCN
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	04/06/2018	CCN

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: Mike Noll
 CLIENT PROJECT: 81177585 Task 2

DATE: 4/11/2018
 ALS SDG#: EV18040029
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 127131 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	77.5			50	150	04/06/2018	CCN
Dichlorodifluoromethane - BSD	EPA-8260	78.1	1		50	150	04/06/2018	CCN
Chloromethane - BS	EPA-8260	95.5			50	150	04/06/2018	CCN
Chloromethane - BSD	EPA-8260	92.3	3		50	150	04/06/2018	CCN
Vinyl Chloride - BS	EPA-8260	98.0			50	150	04/06/2018	CCN
Vinyl Chloride - BSD	EPA-8260	94.4	4		50	150	04/06/2018	CCN
Bromomethane - BS	EPA-8260	102			50	150	04/06/2018	CCN
Bromomethane - BSD	EPA-8260	97.4	5		50	150	04/06/2018	CCN
Chloroethane - BS	EPA-8260	98.3			50	150	04/06/2018	CCN
Chloroethane - BSD	EPA-8260	96.8	2		50	150	04/06/2018	CCN
Carbon Tetrachloride - BS	EPA-8260	86.9			50	150	04/06/2018	CCN
Carbon Tetrachloride - BSD	EPA-8260	85.0	2		50	150	04/06/2018	CCN
Trichlorofluoromethane - BS	EPA-8260	88.2			50	150	04/06/2018	CCN
Trichlorofluoromethane - BSD	EPA-8260	86.4	2		50	150	04/06/2018	CCN
1,1-Dichloroethene - BS	EPA-8260	95.9			72.5	136	04/06/2018	CCN
1,1-Dichloroethene - BSD	EPA-8260	93.3	3		72.5	136	04/06/2018	CCN
Methylene Chloride - BS	EPA-8260	97.6			50	150	04/06/2018	CCN
Methylene Chloride - BSD	EPA-8260	99.0	1		50	150	04/06/2018	CCN
Trans-1,2-Dichloroethene - BS	EPA-8260	99.6			50	150	04/06/2018	CCN
Trans-1,2-Dichloroethene - BSD	EPA-8260	96.0	4		50	150	04/06/2018	CCN
1,1-Dichloroethane - BS	EPA-8260	102			50	150	04/06/2018	CCN
1,1-Dichloroethane - BSD	EPA-8260	98.5	3		50	150	04/06/2018	CCN
Cis-1,2-Dichloroethene - BS	EPA-8260	100			50	150	04/06/2018	CCN
Cis-1,2-Dichloroethene - BSD	EPA-8260	97.6	3		50	150	04/06/2018	CCN
2,2-Dichloropropane - BS	EPA-8260	81.8			50	150	04/06/2018	CCN
2,2-Dichloropropane - BSD	EPA-8260	77.5	5		50	150	04/06/2018	CCN
Bromochloromethane - BS	EPA-8260	101			50	150	04/06/2018	CCN
Bromochloromethane - BSD	EPA-8260	60.9	49		50	150	04/06/2018	CCN
Chloroform - BS	EPA-8260	96.0			50	150	04/06/2018	CCN
Chloroform - BSD	EPA-8260	93.2	3		50	150	04/06/2018	CCN
1,1,1-Trichloroethane - BS	EPA-8260	94.7			50	150	04/06/2018	CCN
1,1,1-Trichloroethane - BSD	EPA-8260	92.8	2		50	150	04/06/2018	CCN
1,1-Dichloropropene - BS	EPA-8260	94.9			50	150	04/06/2018	CCN
1,1-Dichloropropene - BSD	EPA-8260	91.8	3		50	150	04/06/2018	CCN
1,2-Dichloroethane - BS	EPA-8260	92.6			50	150	04/06/2018	CCN
1,2-Dichloroethane - BSD	EPA-8260	90.7	2		50	150	04/06/2018	CCN
Trichloroethene - BS	EPA-8260	96.5			74.4	141	04/06/2018	CCN
Trichloroethene - BSD	EPA-8260	98.8	2		74.4	141	04/06/2018	CCN
1,2-Dichloropropane - BS	EPA-8260	101			50	150	04/06/2018	CCN



CERTIFICATE OF ANALYSIS

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

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 81177585 Task 2

DATE: 4/11/2018
 ALS SDG#: EV18040029
 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	98.0	3		50	150	04/06/2018	CCN
Dibromomethane - BS	EPA-8260	98.1			50	150	04/06/2018	CCN
Dibromomethane - BSD	EPA-8260	96.5	2		50	150	04/06/2018	CCN
Bromodichloromethane - BS	EPA-8260	102			50	150	04/06/2018	CCN
Bromodichloromethane - BSD	EPA-8260	99.8	2		50	150	04/06/2018	CCN
Trans-1,3-Dichloropropene - BS	EPA-8260	94.6			50	150	04/06/2018	CCN
Trans-1,3-Dichloropropene - BSD	EPA-8260	93.5	1		50	150	04/06/2018	CCN
Toluene - BS	EPA-8260	98.4			71.7	139	04/06/2018	CCN
Toluene - BSD	EPA-8260	96.2	2		71.7	139	04/06/2018	CCN
Cis-1,3-Dichloropropene - BS	EPA-8260	97.8			50	150	04/06/2018	CCN
Cis-1,3-Dichloropropene - BSD	EPA-8260	95.2	3		50	150	04/06/2018	CCN
1,1,2-Trichloroethane - BS	EPA-8260	98.2			50	150	04/06/2018	CCN
1,1,2-Trichloroethane - BSD	EPA-8260	97.0	1		50	150	04/06/2018	CCN
1,3-Dichloropropane - BS	EPA-8260	97.6			50	150	04/06/2018	CCN
1,3-Dichloropropane - BSD	EPA-8260	96.1	2		50	150	04/06/2018	CCN
Tetrachloroethylene - BS	EPA-8260	73.9			50	150	04/06/2018	CCN
Tetrachloroethylene - BSD	EPA-8260	95.9	26		50	150	04/06/2018	CCN
Dibromochloromethane - BS	EPA-8260	101			50	150	04/06/2018	CCN
Dibromochloromethane - BSD	EPA-8260	99.8	1		50	150	04/06/2018	CCN
1,2-Dibromoethane - BS	EPA-8260	96.3			50	150	04/06/2018	CCN
1,2-Dibromoethane - BSD	EPA-8260	95.3	1		50	150	04/06/2018	CCN
Chlorobenzene - BS	EPA-8260	99.2			73	131	04/06/2018	CCN
Chlorobenzene - BSD	EPA-8260	97.7	2		73	131	04/06/2018	CCN
1,1,1,2-Tetrachloroethane - BS	EPA-8260	99.7			50	150	04/06/2018	CCN
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	98.5	1		50	150	04/06/2018	CCN
Bromoform - BS	EPA-8260	99.5			50	150	04/06/2018	CCN
Bromoform - BSD	EPA-8260	98.8	1		50	150	04/06/2018	CCN
1,1,2,2-Tetrachloroethane - BS	EPA-8260	95.9			50	150	04/06/2018	CCN
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	86.1	11		50	150	04/06/2018	CCN
1,2,3-Trichloropropane - BS	EPA-8260	90.8			50	150	04/06/2018	CCN
1,2,3-Trichloropropane - BSD	EPA-8260	89.9	1		50	150	04/06/2018	CCN
Bromobenzene - BS	EPA-8260	98.5			50	150	04/06/2018	CCN
Bromobenzene - BSD	EPA-8260	98.0	1		50	150	04/06/2018	CCN
2-Chlorotoluene - BS	EPA-8260	97.2			50	150	04/06/2018	CCN
2-Chlorotoluene - BSD	EPA-8260	95.3	2		50	150	04/06/2018	CCN
4-Chlorotoluene - BS	EPA-8260	97.6			50	150	04/06/2018	CCN
4-Chlorotoluene - BSD	EPA-8260	96.3	1		50	150	04/06/2018	CCN
1,3-Dichlorobenzene - BS	EPA-8260	98.8			50	150	04/06/2018	CCN
1,3-Dichlorobenzene - BSD	EPA-8260	97.7	1		50	150	04/06/2018	CCN
1,4-Dichlorobenzene - BS	EPA-8260	98.9			50	150	04/06/2018	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	4/11/2018
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV18040029
CLIENT PROJECT:	81177585 Task 2	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	97.8	1		50	150	04/06/2018	CCN
1,2-Dichlorobenzene - BS	EPA-8260	98.8			50	150	04/06/2018	CCN
1,2-Dichlorobenzene - BSD	EPA-8260	98.1	1		50	150	04/06/2018	CCN
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	94.7			50	150	04/06/2018	CCN
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	93.5	1		50	150	04/06/2018	CCN
1,2,4-Trichlorobenzene - BS	EPA-8260	103			50	150	04/06/2018	CCN
1,2,4-Trichlorobenzene - BSD	EPA-8260	102	1		50	150	04/06/2018	CCN
Hexachlorobutadiene - BS	EPA-8260	97.4			50	150	04/06/2018	CCN
Hexachlorobutadiene - BSD	EPA-8260	94.5	3		50	150	04/06/2018	CCN
1,2,3-Trichlorobenzene - BS	EPA-8260	103			50	150	04/06/2018	CCN
1,2,3-Trichlorobenzene - BSD	EPA-8260	102	1		50	150	04/06/2018	CCN

APPROVED BY

Technical Manager



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)

EV18040029

Date 4-5-18 Page 1 Of 1

PROJECT ID: <u>81177585 TRSKZ</u>					ANALYSIS REQUESTED												OTHER (Specify)																	
REPORT TO COMPANY: <u>TERRAZON</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 <u>44000</u> EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pri Pol <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>																													
PROJECT MANAGER: <u>Mike Noll</u>																																		
ADDRESS:																																		
PHONE: P.O. #:																																		
E-MAIL: <u>Mike.Noll@terrazon.com</u>																																		
INVOICE TO COMPANY: <u>Terrazon</u>																																		
ATTENTION: <u>Karen Meyer</u>																																		
ADDRESS: <u>Karen Meyer@terrazon.com</u>																																		
SAMPLE I.D.	DATE	TIME	TYPE	LAB#		NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 <input type="checkbox"/>	BTEX by EPA 8260 <input type="checkbox"/>	MTBE by EPA 8021 <input type="checkbox"/>	MTBE by EPA 8260 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 <input type="checkbox"/>	Pesticides by EPA 8081 <input type="checkbox"/>	Metals-MTCA-5 <input type="checkbox"/>	RCRA-8 <input type="checkbox"/>	Pri Pol <input type="checkbox"/>	TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-Vol <input type="checkbox"/>	Pest <input type="checkbox"/>	Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?		
1. <u>MW-2</u>	<u>4/5/18</u>	<u>1030</u>	<u>W</u>	<u>1</u>										<input checked="" type="checkbox"/>																		<u>3</u>		
2.																																		
3.																																		
4.																																		
5.																																		
6.																																		
7.																																		
8.																																		
9.																																		
10.																																		

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Shawn Roberson / Terrazon / 4-5-18 / 12:15

Received By: Shawn Roberson ALS 4/5/18 12:15

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

Standard Rush 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 1 SAME DAY

OTHER: _____

Specify: _____

*Turnaround request less than standard may incur Rush Charges



May 18, 2018

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

Dear Mr. Swart,

On May 11th, 15 samples were received by our laboratory and assigned our laboratory project number EV18050069. The project was identified as your 81187105. 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: Lucas Swart
 CLIENT PROJECT: 81187105
 CLIENT SAMPLE ID: ESW-N-4

DATE: 5/18/2018
 ALS JOB#: EV18050069
 ALS SAMPLE#: EV18050069-01
 DATE RECEIVED: 05/11/2018
 COLLECTION DATE: 5/10/2018 1:30:00 PM
 WDOE ACCREDITATION: 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	05/11/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/11/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.016	0.010	1	MG/KG	05/11/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Trichloroethene	EPA-8260	0.029	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Tetrachloroethylene	EPA-8260	16	0.10	10	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/11/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-01
CLIENT SAMPLE ID	ESW-N-4	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:30:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/11/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.3	05/11/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	94.4	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	96.0	05/11/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	92.4	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-02
CLIENT SAMPLE ID	ESW-NE-5	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:35:00 PM
		WDOE ACCREDITATION:	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	05/11/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/11/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.011	0.010	1	MG/KG	05/11/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Trichloroethene	EPA-8260	0.014	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Tetrachloroethylene	EPA-8260	22	0.10	10	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/11/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-02
CLIENT SAMPLE ID	ESW-NE-5	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:35:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/11/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/11/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.2	05/11/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	95.0	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	95.0	05/11/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	92.8	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-03
CLIENT SAMPLE ID	ESW-E-3	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:40:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-03
CLIENT SAMPLE ID	ESW-E-3	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:40:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.5	05/12/2018	DLC
4-Bromofluorobenzene	EPA-8260	94.5	05/12/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-04
CLIENT SAMPLE ID	ESW-S-4	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:45:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	0.048	0.010	1	MG/KG	05/12/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-04
CLIENT SAMPLE ID	ESW-S-4	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:45:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	93.9	05/12/2018	DLC
4-Bromofluorobenzene	EPA-8260	93.3	05/12/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-05
CLIENT SAMPLE ID	ESW-SW-3	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:50:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	0.040	0.010	1	MG/KG	05/12/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-05
CLIENT SAMPLE ID	ESW-SW-3	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.6	05/12/2018	DLC
4-Bromofluorobenzene	EPA-8260	94.0	05/12/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-06
CLIENT SAMPLE ID	ESW-W-6	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:55:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.015	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	0.78	0.010	1	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-06
CLIENT SAMPLE ID	ESW-W-6	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 1:55:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	92.0	05/12/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	96.8	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	94.4	05/12/2018	DLC
4-Bromofluorobenzene	EPA-8260	91.5	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-07
CLIENT SAMPLE ID	ESW-NW-2	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:00:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	0.40	0.010	1	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-07
CLIENT SAMPLE ID	ESW-NW-2	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:00:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	92.6	05/12/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	93.3	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	92.3	05/12/2018	DLC
4-Bromofluorobenzene	EPA-8260	90.8	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-08
CLIENT SAMPLE ID	BOT-W-8	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:05:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	4.5	0.10	10	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-08
CLIENT SAMPLE ID	BOT-W-8	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:05:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.3	05/12/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	94.7	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	95.4	05/12/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	93.3	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-09
CLIENT SAMPLE ID	BOT-N-8	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:10:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	0.011	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	19	0.10	10	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-09
CLIENT SAMPLE ID	BOT-N-8	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:10:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	90.7	05/12/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	95.9	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	95.5	05/12/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	93.4	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-10
CLIENT SAMPLE ID	BOT-E-8	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:15:00 PM
		WDOE ACCREDITATION:	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	05/12/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/12/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Tetrachloroethylene	EPA-8260	18	0.10	10	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/12/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-10
CLIENT SAMPLE ID	BOT-E-8	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/12/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/12/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.1	05/12/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	93.3	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	95.3	05/12/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	92.5	05/14/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-11
CLIENT SAMPLE ID	SP-1	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:10:00 PM
		WDOE ACCREDITATION:	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	05/16/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	0.026	0.010	1	MG/KG	05/16/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Tetrachloroethylene	EPA-8260	2.7	0.010	1	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/16/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-11
CLIENT SAMPLE ID	SP-1	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:10:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/16/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.6	05/14/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	85.5	05/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	91.5	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	96.8	05/16/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-12
CLIENT SAMPLE ID	SP-2	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:11:00 PM
		WDOE ACCREDITATION:	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	05/16/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Tetrachloroethylene	EPA-8260	1.8	0.010	1	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/16/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-12
CLIENT SAMPLE ID	SP-2	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:11:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/16/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	92.2	05/14/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	105	05/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	93.1	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	96.7	05/16/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-13
CLIENT SAMPLE ID	SP-3	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:12:00 PM
		WDOE ACCREDITATION:	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	05/16/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Tetrachloroethylene	EPA-8260	0.62	0.010	1	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/16/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-13
CLIENT SAMPLE ID	SP-3	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:12:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/16/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	94.6	05/14/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	105	05/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	91.7	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	96.3	05/16/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-14
CLIENT SAMPLE ID	SP-4	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:13:00 PM
		WDOE ACCREDITATION:	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	05/16/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Tetrachloroethylene	EPA-8260	4.3	0.10	10	MG/KG	05/16/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/16/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-14
CLIENT SAMPLE ID	SP-4	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:13:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/16/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	107	05/16/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	107	05/16/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	94.4	05/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	98.2	05/16/2018	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	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-15
CLIENT SAMPLE ID	SP-5	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:14:00 PM
		WDOE ACCREDITATION:	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	05/16/2018	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	05/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Tetrachloroethylene	EPA-8260	2.1	0.010	1	MG/KG	05/14/2018	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	05/16/2018	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS JOB#:	EV18050069
CLIENT PROJECT:	81187105	ALS SAMPLE#:	EV18050069-15
CLIENT SAMPLE ID	SP-5	DATE RECEIVED:	05/11/2018
		COLLECTION DATE:	5/10/2018 2:14:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	05/16/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	05/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	94.8	05/14/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	105	05/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	92.4	05/14/2018	DLC
4-Bromofluorobenzene	EPA-8260	96.1	05/16/2018	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: Lucas Swart
 CLIENT PROJECT: 81187105

DATE: 5/18/2018
 ALS SDG#: EV18050069
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-051118S2 - Batch 128404 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	05/11/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Toluene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	05/11/2018	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
		ALS SDG#:	EV18050069
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Lucas Swart		
CLIENT PROJECT:	81187105		

LABORATORY BLANK RESULTS

MB-051118S2 - Batch 128404 - Soil by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	05/11/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	05/11/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	05/11/2018	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: Lucas Swart
 CLIENT PROJECT: 81187105

DATE: 5/18/2018
 ALS SDG#: EV18050069
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 128404 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	93.1			50	150	05/11/2018	DLC
Dichlorodifluoromethane - BSD	EPA-8260	99.5	7		50	150	05/11/2018	DLC
Chloromethane - BS	EPA-8260	89.3			50	150	05/11/2018	DLC
Chloromethane - BSD	EPA-8260	96.5	8		50	150	05/11/2018	DLC
Vinyl Chloride - BS	EPA-8260	83.9			50	150	05/11/2018	DLC
Vinyl Chloride - BSD	EPA-8260	90.4	7		50	150	05/11/2018	DLC
Bromomethane - BS	EPA-8260	94.1			50	150	05/11/2018	DLC
Bromomethane - BSD	EPA-8260	104	10		50	150	05/11/2018	DLC
Chloroethane - BS	EPA-8260	87.4			50	150	05/11/2018	DLC
Chloroethane - BSD	EPA-8260	93.6	7		50	150	05/11/2018	DLC
Carbon Tetrachloride - BS	EPA-8260	91.2			50	150	05/11/2018	DLC
Carbon Tetrachloride - BSD	EPA-8260	98.7	8		50	150	05/11/2018	DLC
Trichlorofluoromethane - BS	EPA-8260	85.0			50	150	05/11/2018	DLC
Trichlorofluoromethane - BSD	EPA-8260	92.7	9		50	150	05/11/2018	DLC
1,1-Dichloroethene - BS	EPA-8260	89.8			73	138	05/11/2018	DLC
1,1-Dichloroethene - BSD	EPA-8260	96.3	7		73	138	05/11/2018	DLC
Methylene Chloride - BS	EPA-8260	109			50	150	05/11/2018	DLC
Methylene Chloride - BSD	EPA-8260	119	8		50	150	05/11/2018	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	92.5			50	150	05/11/2018	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	101	9		50	150	05/11/2018	DLC
1,1-Dichloroethane - BS	EPA-8260	94.6			50	150	05/11/2018	DLC
1,1-Dichloroethane - BSD	EPA-8260	99.7	5		50	150	05/11/2018	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	101			50	150	05/11/2018	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	104	3		50	150	05/11/2018	DLC
2,2-Dichloropropane - BS	EPA-8260	89.4			50	150	05/11/2018	DLC
2,2-Dichloropropane - BSD	EPA-8260	92.3	3		50	150	05/11/2018	DLC
Bromochloromethane - BS	EPA-8260	98.4			50	150	05/11/2018	DLC
Bromochloromethane - BSD	EPA-8260	101	3		50	150	05/11/2018	DLC
Chloroform - BS	EPA-8260	91.8			50	150	05/11/2018	DLC
Chloroform - BSD	EPA-8260	95.9	4		50	150	05/11/2018	DLC
1,1,1-Trichloroethane - BS	EPA-8260	94.0			50	150	05/11/2018	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	99.0	5		50	150	05/11/2018	DLC
1,1-Dichloropropene - BS	EPA-8260	88.6			50	150	05/11/2018	DLC
1,1-Dichloropropene - BSD	EPA-8260	96.1	8		50	150	05/11/2018	DLC
1,2-Dichloroethane - BS	EPA-8260	95.5			50	150	05/11/2018	DLC
1,2-Dichloroethane - BSD	EPA-8260	98.4	3		50	150	05/11/2018	DLC
Trichloroethene - BS	EPA-8260	91.7			75	136	05/11/2018	DLC
Trichloroethene - BSD	EPA-8260	97.7	6		75	136	05/11/2018	DLC
1,2-Dichloropropane - BS	EPA-8260	90.7			50	150	05/11/2018	DLC



CERTIFICATE OF ANALYSIS

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

CLIENT CONTACT: Lucas Swart
 CLIENT PROJECT: 81187105

DATE: 5/18/2018
 ALS SDG#: EV18050069
 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	94.7	4		50	150	05/11/2018	DLC
Dibromomethane - BS	EPA-8260	95.8			50	150	05/11/2018	DLC
Dibromomethane - BSD	EPA-8260	100	5		50	150	05/11/2018	DLC
Bromodichloromethane - BS	EPA-8260	92.6			50	150	05/11/2018	DLC
Bromodichloromethane - BSD	EPA-8260	96.1	4		50	150	05/11/2018	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	99.5			50	150	05/11/2018	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	102	3		50	150	05/11/2018	DLC
Toluene - BS	EPA-8260	87.2			71.6	122.1	05/11/2018	DLC
Toluene - BSD	EPA-8260	92.1	6		71.6	122.1	05/11/2018	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	101			50	150	05/11/2018	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	105	4		50	150	05/11/2018	DLC
1,1,2-Trichloroethane - BS	EPA-8260	96.0			50	150	05/11/2018	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	98.8	3		50	150	05/11/2018	DLC
1,3-Dichloropropane - BS	EPA-8260	95.1			50	150	05/11/2018	DLC
1,3-Dichloropropane - BSD	EPA-8260	97.5	3		50	150	05/11/2018	DLC
Tetrachloroethylene - BS	EPA-8260	86.7			50	150	05/11/2018	DLC
Tetrachloroethylene - BSD	EPA-8260	94.7	9		50	150	05/11/2018	DLC
Dibromochloromethane - BS	EPA-8260	89.6			50	150	05/11/2018	DLC
Dibromochloromethane - BSD	EPA-8260	92.3	3		50	150	05/11/2018	DLC
1,2-Dibromoethane - BS	EPA-8260	92.2			50	150	05/11/2018	DLC
1,2-Dibromoethane - BSD	EPA-8260	94.5	2		50	150	05/11/2018	DLC
Chlorobenzene - BS	EPA-8260	90.2			79	128	05/11/2018	DLC
Chlorobenzene - BSD	EPA-8260	95.1	5		79	128	05/11/2018	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	87.4			50	150	05/11/2018	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	92.0	5		50	150	05/11/2018	DLC
Bromoform - BS	EPA-8260	95.5			50	150	05/11/2018	DLC
Bromoform - BSD	EPA-8260	97.9	2		50	150	05/11/2018	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	94.0			50	150	05/11/2018	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	92.3	2		50	150	05/11/2018	DLC
1,2,3-Trichloropropane - BS	EPA-8260	89.0			50	150	05/11/2018	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	89.7	1		50	150	05/11/2018	DLC
Bromobenzene - BS	EPA-8260	84.3			50	150	05/11/2018	DLC
Bromobenzene - BSD	EPA-8260	86.7	3		50	150	05/11/2018	DLC
2-Chlorotoluene - BS	EPA-8260	90.2			50	150	05/11/2018	DLC
2-Chlorotoluene - BSD	EPA-8260	93.9	4		50	150	05/11/2018	DLC
4-Chlorotoluene - BS	EPA-8260	85.9			50	150	05/11/2018	DLC
4-Chlorotoluene - BSD	EPA-8260	90.9	6		50	150	05/11/2018	DLC
1,3-Dichlorobenzene - BS	EPA-8260	85.4			50	150	05/11/2018	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	88.6	4		50	150	05/11/2018	DLC
1,4-Dichlorobenzene - BS	EPA-8260	84.2			50	150	05/11/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	Terracon 21905 - 64th Ave W, Suite 100 Mountlake Terrace, WA 98043	DATE:	5/18/2018
CLIENT CONTACT:	Lucas Swart	ALS SDG#:	EV18050069
CLIENT PROJECT:	81187105	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	87.5	4		50	150	05/11/2018	DLC
1,2-Dichlorobenzene - BS	EPA-8260	87.8			50	150	05/11/2018	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	89.5	2		50	150	05/11/2018	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	107			50	150	05/11/2018	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	107	0		50	150	05/11/2018	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	88.3			50	150	05/11/2018	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	89.6	1		50	150	05/11/2018	DLC
Hexachlorobutadiene - BS	EPA-8260	76.8			50	150	05/11/2018	DLC
Hexachlorobutadiene - BSD	EPA-8260	80.9	5		50	150	05/11/2018	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	90.2			50	150	05/11/2018	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	93.4	4		50	150	05/11/2018	DLC

APPROVED BY



Laboratory Director



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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EVI8050069

Date 5/10/18 Page 1 Of 2

PROJECT ID: <u>81187105</u>					ANALYSIS REQUESTED										OTHER (Specify)					
REPORT TO COMPANY: <u>Terracem Consultants Inc (TC)</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pri/Po <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/> <u>HUOC</u>	PROJECT MANAGER: <u>Lucas Swart</u>					NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?									
ADDRESS: <u>21905 64th Ave W. Suite 100</u>																				
<u>Mantake Terracem, WA, 98043</u>																				
PHONE: <u>425-771-3304</u> P.O. #:																				
E-MAIL: <u>Lucas.Swart@Terracem.com</u>																				
INVOICE TO COMPANY: <u>Kyle.Bennett@Terracem.com</u>																				
ATTENTION:																				
ADDRESS:																				
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																
1. <u>ESW-N-4</u>	<u>5/10/18</u>	<u>1330</u>	<u>Soil</u>	<u>1</u>	X															
2. <u>ESW-NE-5</u>		<u>1335</u>		<u>2</u>																
3. <u>ESW-E-3</u>		<u>1340</u>		<u>3</u>																
4. <u>ESW-S-4</u>		<u>1345</u>		<u>4</u>																
5. <u>ESW-SW-3</u>		<u>1350</u>		<u>5</u>																
6. <u>ESW-W-8</u>		<u>1355</u>		<u>6</u>																
7. <u>ESW-NW-2</u>		<u>1400</u>		<u>7</u>																
8. <u>BOT-W-8</u>		<u>1405</u>		<u>8</u>																
9. <u>BOT-N-8</u>		<u>1410</u>		<u>9</u>																
10. <u>BOT-E-8</u>	<u>✓</u>	<u>1415</u>	<u>✓</u>	<u>10</u>	↓															

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: [Signature] TC, 5/11/18 0940
 Received By: [Signature] ALS, 5/11/18 9:40
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis
 10 Standard 3 2 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 5 Standard 3 1 SAME DAY
 OTHER: _____
 Specify: _____

*Turnaround request less than standard may incur Rush Charges



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Chain Of Custody/ Laboratory Analysis Request

ALS Job# (Laboratory Use Only)

EVI8050069

Date 5/10/18 Page 2 of 2

PROJECT ID: 81187105					ANALYSIS REQUESTED												OTHER (Specify)		
REPORT TO COMPANY:					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pri Pol <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>														
PROJECT MANAGER: Same as page 1																			
ADDRESS:																			
PHONE: P.O. #:																			
E-MAIL:																			
INVOICE TO COMPANY:																			
ATTENTION:																			
ADDRESS:																			
SAMPLE I.D.	DATE	TIME	TYPE	LAB#														NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. SP-1	5/10/18	1410	Soil	11															
2. SP-2	↓	1411	↓	12															
3. SP-3	↓	1412	↓	13															
4. SP-4	↓	1413	↓	14															
5. SP-5	↓	1414	↓	15															
6.																			
7.																			
8.																			
9.																			
10.																			

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] TC, 5/11/18, 0940
 Received By: [Signature] ALS 5/11/18 9:40

2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

Standard 10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

Standard 5 3 1 SAME DAY

OTHER:

Specify: _____

*Turnaround request less than standard may incur Rush Charges



November 19, 2018

Mr. Mike Noll
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Mr. Noll,

On November 15th, 2 samples were received by our laboratory and assigned our laboratory project number EV18110100. The project was identified as your 11185912-18.01. 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:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/19/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110100
CLIENT PROJECT:	11185912-18.01	ALS SAMPLE#:	EV18110100-01
CLIENT SAMPLE ID	A-11185912.11.15.18.MN SSG-1	DATE RECEIVED:	11/15/2018
		COLLECTION DATE:	11/15/2018 12:20:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Vinyl Chloride	EPA-8260	U	0.020	1	UG/L	11/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC
Trichloroethene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC
Tetrachloroethylene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	107	11/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	89.7	11/16/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/19/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110100
CLIENT PROJECT:	11185912-18.01	ALS SAMPLE#:	EV18110100-02
CLIENT SAMPLE ID	A-11185912.11.15.18.MN SSG-2	DATE RECEIVED:	11/15/2018
		COLLECTION DATE:	11/15/2018 1:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Vinyl Chloride	EPA-8260	U	0.020	1	UG/L	11/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC
Trichloroethene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC
Tetrachloroethylene	EPA-8260	U	0.20	1	UG/L	11/16/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104	11/16/2018	DLC
4-Bromofluorobenzene	EPA-8260	91.1	11/16/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036
CLIENT CONTACT: Mike Noll
CLIENT PROJECT: 11185912-18.01

DATE: 11/19/2018
ALS SDG#: EV18110100
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-111618A - Batch 134772 - Air by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Vinyl Chloride	EPA-8260	U	UG/L	0.020	11/16/2018	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	0.20	11/16/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	0.20	11/16/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	0.20	11/16/2018	DLC
Trichloroethene	EPA-8260	U	UG/L	0.20	11/16/2018	DLC
Toluene	EPA-8260	U	UG/L	0.20	11/16/2018	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	0.20	11/16/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11185912-18.01

DATE: 11/19/2018
 ALS SDG#: EV18110100
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 134772 - Air by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Vinyl Chloride - BS	EPA-8260	85.6			50	150	11/16/2018	DLC
Vinyl Chloride - BSD	EPA-8260	84.2	2		50	150	11/16/2018	DLC
1,1-Dichloroethene - BS	EPA-8260	104			72.5	136	11/16/2018	DLC
1,1-Dichloroethene - BSD	EPA-8260	97.0	7		72.5	136	11/16/2018	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	106			50	150	11/16/2018	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	99.4	7		50	150	11/16/2018	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	119			50	150	11/16/2018	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	110	8		50	150	11/16/2018	DLC
Trichloroethene - BS	EPA-8260	98.4			74.4	141	11/16/2018	DLC
Trichloroethene - BSD	EPA-8260	91.7	7		74.4	141	11/16/2018	DLC
Toluene - BS	EPA-8260	103			71.7	139	11/16/2018	DLC
Toluene - BSD	EPA-8260	94.3	9		71.7	139	11/16/2018	DLC
Tetrachloroethylene - BS	EPA-8260	102			50	150	11/16/2018	DLC
Tetrachloroethylene - BSD	EPA-8260	94.9	7		50	150	11/16/2018	DLC

APPROVED BY

Laboratory Director



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ALS Job# _____ (Laboratory Use Only)

EVI 8110100

Date 11-15-2018 Page 1 Of 1

PROJECT ID: 11185912 ^{MC} - 18.01					ANALYSIS REQUESTED												OTHER (Specify)					
REPORT TO COMPANY: GHD Services, Inc.					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/>	MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260 *	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/>	Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PFI Pol <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
PROJECT MANAGER: Mike Noll																						
ADDRESS: _____																						
ADDRESS: Lynnwood, WA																						
PHONE: (425) 563-6511 PO.#: 34031520																						
E-MAIL: Michael.Noll@ghd.com																						
INVOICE TO COMPANY: GHD																						
ATTENTION: Accts Payable																						
ADDRESS: _____																						
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/>	MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260 *	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semi-volatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/>	Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PFI Pol <input type="checkbox"/> TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. H-11185912-11.15.18.MN SSG-1	11-15-18	1220	Air	1						X											1	
2. A-11185912-11.15.18.MN SSG-2	11-15-18	1315	Air	2						X											1	
3.																						
4.																						
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

SPECIAL INSTRUCTIONS * Report PCE and daughter products; TCE; Cis DCE; Trans DCE; & VC

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Michael S. ACE / GHD / 11-15-2018 / 1345
 Received By: Nathaniel Tandrecki / GHD / 11-15-18 / 1345
 2. Relinquished By: Nathaniel Tandrecki / GHD / 11/15/18 15:00
 Received By: John Brown ALS / 11/15/18 / 15:00

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis
 Standard 5 3 2 1 SAME DAY
 OTHER: _____
 Specify: _____

Fuels & Hydrocarbon Analysis
 Standard 5 3 1 SAME DAY
 OTHER: _____
 Specify: _____

*Turnaround request less than standard may incur Rush Charges



November 26, 2018

Mr. Mike Noll
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Mr. Noll,

On November 16th, 11 samples were received by our laboratory and assigned our laboratory project number EV18110110. The project was identified as your 11185912. 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:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-02
CLIENT SAMPLE ID	S.11185912.11.15.18.HG.MW-6B.10'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/15/2018 10:00:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/19/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/19/2018	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-02
CLIENT SAMPLE ID	S.11185912.11.15.18.HG.MW-6B.10'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/15/2018 10:00:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/19/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	98.3	11/19/2018	DLC
4-Bromofluorobenzene	EPA-8260	94.0	11/19/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-04
CLIENT SAMPLE ID	S.11185912.11.15.18.HG.MW-6B.20'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/15/2018 10:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/19/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/19/2018	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-04
CLIENT SAMPLE ID	S.11185912.11.15.18.HG.MW-6B.20'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/15/2018 10:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/19/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	102	11/19/2018	DLC
4-Bromofluorobenzene	EPA-8260	99.2	11/19/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-08
CLIENT SAMPLE ID	S.11185912.11.16.18.HG.MW-7B.25'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/16/2018 10:41:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/19/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	36	10	1	UG/KG	11/19/2018	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichloroethene	EPA-8260	20	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Tetrachloroethylene	EPA-8260	7400	100	10	UG/KG	11/20/2018	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/19/2018	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-08
CLIENT SAMPLE ID	S.11185912.11.16.18.HG.MW-7B.25'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/16/2018 10:41:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/19/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	97.4	11/19/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	104	11/20/2018	DLC
4-Bromofluorobenzene	EPA-8260	97.5	11/19/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	90.6	11/20/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-09
CLIENT SAMPLE ID	S.11185912.11.16.18.HG.MW-7B.30'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/15/2018 11:02:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/19/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	99	57	1	UG/KG	11/20/2018	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichloroethene	EPA-8260	140	10	1	UG/KG	11/20/2018	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Tetrachloroethylene	EPA-8260	5800	100	10	UG/KG	11/20/2018	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/19/2018	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-09
CLIENT SAMPLE ID	S.11185912.11.16.18.HG.MW-7B.30'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/15/2018 11:02:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/19/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	94.4	11/19/2018	DLC
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	101	11/20/2018	DLC
1,2-Dichloroethane-d4	EPA-8260	98.9	11/20/2018	DLC
4-Bromofluorobenzene	EPA-8260	103	11/19/2018	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	90.3	11/20/2018	DLC
4-Bromofluorobenzene	EPA-8260	89.7	11/20/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-11
CLIENT SAMPLE ID	S.11185912.11.16.18.HG.MW-7B.10'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/16/2018 9:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/19/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Chloroform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trichloroethene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Tetrachloroethylene	EPA-8260	20	10	1	UG/KG	11/19/2018	DLC
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/19/2018	DLC
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromoform	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18110110
CLIENT PROJECT:	11185912	ALS SAMPLE#:	EV18110110-11
CLIENT SAMPLE ID	S.11185912.11.16.18.HG.MW-7B.10'	DATE RECEIVED:	11/16/2018
		COLLECTION DATE:	11/16/2018 9:50:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/19/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/19/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.9	11/19/2018	DLC
4-Bromofluorobenzene	EPA-8260	91.2	11/19/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11185912

DATE: 11/26/2018
 ALS SDG#: EV18110110
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-111918S - Batch 134850 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Chloromethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Vinyl Chloride	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Bromomethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Chloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Carbon Tetrachloride	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Trichlorofluoromethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1-Dichloroethene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Methylene Chloride	EPA-8260	U	UG/KG	20	11/19/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1-Dichloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
2,2-Dichloropropane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Bromochloromethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Chloroform	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1-Dichloropropene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2-Dichloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Trichloroethene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2-Dichloropropane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Dibromomethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Bromodichloromethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Toluene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,3-Dichloropropane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Tetrachloroethylene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Dibromochloromethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2-Dibromoethane	EPA-8260	U	UG/KG	5.0	11/19/2018	DLC
Chlorobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Bromoform	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Bromobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
2-Chlorotoluene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
4-Chlorotoluene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
		ALS SDG#:	EV18110110
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Mike Noll		
CLIENT PROJECT:	11185912		

LABORATORY BLANK RESULTS

MB-111918S - Batch 134850 - Soil by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/KG	50	11/19/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
Hexachlorobutadiene	EPA-8260	U	UG/KG	10	11/19/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/KG	10	11/19/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11185912

DATE: 11/26/2018
 ALS SDG#: EV18110110
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 134850 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	117			50	150	11/19/2018	DLC
Dichlorodifluoromethane - BSD	EPA-8260	111	5		50	150	11/19/2018	DLC
Chloromethane - BS	EPA-8260	116			50	150	11/19/2018	DLC
Chloromethane - BSD	EPA-8260	111	4		50	150	11/19/2018	DLC
Vinyl Chloride - BS	EPA-8260	113			50	150	11/19/2018	DLC
Vinyl Chloride - BSD	EPA-8260	104	8		50	150	11/19/2018	DLC
Bromomethane - BS	EPA-8260	201		SQ1	50	150	11/19/2018	DLC
Bromomethane - BSD	EPA-8260	186	8	SQ1	50	150	11/19/2018	DLC
Chloroethane - BS	EPA-8260	109			50	150	11/19/2018	DLC
Chloroethane - BSD	EPA-8260	102	7		50	150	11/19/2018	DLC
Carbon Tetrachloride - BS	EPA-8260	121			50	150	11/19/2018	DLC
Carbon Tetrachloride - BSD	EPA-8260	112	8		50	150	11/19/2018	DLC
Trichlorofluoromethane - BS	EPA-8260	116			50	150	11/19/2018	DLC
Trichlorofluoromethane - BSD	EPA-8260	108	7		50	150	11/19/2018	DLC
1,1-Dichloroethene - BS	EPA-8260	111			70	130	11/19/2018	DLC
1,1-Dichloroethene - BSD	EPA-8260	102	8		70	130	11/19/2018	DLC
Methylene Chloride - BS	EPA-8260	67.6			50	150	11/19/2018	DLC
Methylene Chloride - BSD	EPA-8260	57.6	16		50	150	11/19/2018	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	118			50	150	11/19/2018	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	107	10		50	150	11/19/2018	DLC
1,1-Dichloroethane - BS	EPA-8260	110			50	150	11/19/2018	DLC
1,1-Dichloroethane - BSD	EPA-8260	96.0	13		50	150	11/19/2018	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	117			50	150	11/19/2018	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	108	8		50	150	11/19/2018	DLC
2,2-Dichloropropane - BS	EPA-8260	125			50	150	11/19/2018	DLC
2,2-Dichloropropane - BSD	EPA-8260	114	9		50	150	11/19/2018	DLC
Bromochloromethane - BS	EPA-8260	106			50	150	11/19/2018	DLC
Bromochloromethane - BSD	EPA-8260	97.5	8		50	150	11/19/2018	DLC
Chloroform - BS	EPA-8260	120			50	150	11/19/2018	DLC
Chloroform - BSD	EPA-8260	111	7		50	150	11/19/2018	DLC
1,1,1-Trichloroethane - BS	EPA-8260	121			50	150	11/19/2018	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	112	8		50	150	11/19/2018	DLC
1,1-Dichloropropene - BS	EPA-8260	121			50	150	11/19/2018	DLC
1,1-Dichloropropene - BSD	EPA-8260	111	8		50	150	11/19/2018	DLC
1,2-Dichloroethane - BS	EPA-8260	99.3			50	150	11/19/2018	DLC
1,2-Dichloroethane - BSD	EPA-8260	93.8	6		50	150	11/19/2018	DLC
Trichloroethene - BS	EPA-8260	105			75	136	11/19/2018	DLC
Trichloroethene - BSD	EPA-8260	98.5	7		75	136	11/19/2018	DLC
1,2-Dichloropropane - BS	EPA-8260	103			50	150	11/19/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11185912

DATE: 11/26/2018
 ALS SDG#: EV18110110
 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	96.0	7		50	150	11/19/2018	DLC
Dibromomethane - BS	EPA-8260	112			50	150	11/19/2018	DLC
Dibromomethane - BSD	EPA-8260	103	8		50	150	11/19/2018	DLC
Bromodichloromethane - BS	EPA-8260	104			50	150	11/19/2018	DLC
Bromodichloromethane - BSD	EPA-8260	97.1	7		50	150	11/19/2018	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	123			50	150	11/19/2018	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	111	11		50	150	11/19/2018	DLC
Toluene - BS	EPA-8260	106			71.6	122.1	11/19/2018	DLC
Toluene - BSD	EPA-8260	98.8	7		71.6	122.1	11/19/2018	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	113			50	150	11/19/2018	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	105	7		50	150	11/19/2018	DLC
1,1,2-Trichloroethane - BS	EPA-8260	106			50	150	11/19/2018	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	97.0	9		50	150	11/19/2018	DLC
1,3-Dichloropropane - BS	EPA-8260	105			50	150	11/19/2018	DLC
1,3-Dichloropropane - BSD	EPA-8260	94.0	11		50	150	11/19/2018	DLC
Tetrachloroethylene - BS	EPA-8260	110			50	150	11/19/2018	DLC
Tetrachloroethylene - BSD	EPA-8260	99.9	9		50	150	11/19/2018	DLC
Dibromochloromethane - BS	EPA-8260	108			50	150	11/19/2018	DLC
Dibromochloromethane - BSD	EPA-8260	99.1	8		50	150	11/19/2018	DLC
1,2-Dibromoethane - BS	EPA-8260	107			50	150	11/19/2018	DLC
1,2-Dibromoethane - BSD	EPA-8260	97.6	9		50	150	11/19/2018	DLC
Chlorobenzene - BS	EPA-8260	115			79	128	11/19/2018	DLC
Chlorobenzene - BSD	EPA-8260	106	8		79	128	11/19/2018	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	102			50	150	11/19/2018	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	93.1	9		50	150	11/19/2018	DLC
Bromoform - BS	EPA-8260	114			50	150	11/19/2018	DLC
Bromoform - BSD	EPA-8260	106	7		50	150	11/19/2018	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	108			50	150	11/19/2018	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	97.4	10		50	150	11/19/2018	DLC
1,2,3-Trichloropropane - BS	EPA-8260	110			50	150	11/19/2018	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	101	9		50	150	11/19/2018	DLC
Bromobenzene - BS	EPA-8260	103			50	150	11/19/2018	DLC
Bromobenzene - BSD	EPA-8260	93.8	9		50	150	11/19/2018	DLC
2-Chlorotoluene - BS	EPA-8260	120			50	150	11/19/2018	DLC
2-Chlorotoluene - BSD	EPA-8260	108	10		50	150	11/19/2018	DLC
4-Chlorotoluene - BS	EPA-8260	118			50	150	11/19/2018	DLC
4-Chlorotoluene - BSD	EPA-8260	106	11		50	150	11/19/2018	DLC
1,3-Dichlorobenzene - BS	EPA-8260	106			50	150	11/19/2018	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	96.8	10		50	150	11/19/2018	DLC
1,4-Dichlorobenzene - BS	EPA-8260	109			50	150	11/19/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	11/26/2018
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV18110110
CLIENT PROJECT:	11185912	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	101	8		50	150	11/19/2018	DLC
1,2-Dichlorobenzene - BS	EPA-8260	108			50	150	11/19/2018	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	99.3	8		50	150	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	112			50	150	11/19/2018	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	103	9		50	150	11/19/2018	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	122			50	150	11/19/2018	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	109	11		50	150	11/19/2018	DLC
Hexachlorobutadiene - BS	EPA-8260	106			50	150	11/19/2018	DLC
Hexachlorobutadiene - BSD	EPA-8260	98.2	8		50	150	11/19/2018	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	118			50	150	11/19/2018	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	107	9		50	150	11/19/2018	DLC

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. 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)

EVI 8110110

Date _____ Page 1 Of 2

PROJECT ID: 11185912					ANALYSIS REQUESTED												OTHER (Specify)														
REPORT TO COMPANY: GHD					<input type="checkbox"/> NWTPH-HCID <input type="checkbox"/> NWTPH-DX <input type="checkbox"/> NWTPH-GX <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <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-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PH 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																										
PROJECT MANAGER: MIKE NOLL																															
ADDRESS: 20818 4th Ave N. Suite 190 LYNNWOOD, WA 98036																															
PHONE: 425-563-1251 P.O. #: 34031520																															
E-MAIL: micnoll@ghd.com																															
INVOICE TO COMPANY:																															
ATTENTION:																															
ADDRESS:																															
SAMPLE I.D.	DATE	TIME	TYPE	LAB#	NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8260	MTBE by EPA 8021	MTBE by EPA 8260	Halogenated Volatiles by EPA 8260	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082	Pesticides by EPA 8081	Metals-MTCA-5	RCRA-8	PH Pol	TAL	Metals Other (Specify)	TCLP-Metals	VOA	Semi-Vol	Pest	Herbs	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
1. S-11185912-11-15-18-HG-MW-08.5'	11/15/18	950	S	1																										4	
2. S-11185912-11-15-18-HG-MW-08.10'		1000		2							X																			4	
3. S-11185912-11-15-18-HG-MW-08.15'		1014		3																										4	
4. S-11185912-11-15-18-HG-MW-08.20'		1030		4							X																			4	
5. S-11185912-11-15-18-HG-MW-08.25'		1111		5																										4	
6. S-11185912-11-15-18-HG-MW-08.30'		944		6																										4	
7. S-11185912-11-16-18-HG-MW-10.15'		1050		7																										3	
8. S-11185912-11-16-18-HG-MW-10.25'		1044		8							X																			4	
9. S-11185912-11-16-18-HG-MW-10.30'		1002		9							X																			3	
10. S-11185912-11-16-18-HG-MW-10.35'		1118		10																										1	

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Hamer Odawa, GHD 11/16/18 1444
 Received By: ALS 11/16/18 1444

2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 OTHER:

Organic, Metals & Inorganic Analysis
 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis
 5 3 1 SAME DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges



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)

EVI 8110110

Date _____ Page 2 Of 2

PROJECT ID:					ANALYSIS REQUESTED										OTHER (Specify)				
REPORT TO COMPANY:					INWTPH-HCID INWTPH-DX INWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8280 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8280 <input type="checkbox"/> Halogenated Volatiles by EPA 8280 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM 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"/> P+Pol <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	ADDRESS:													
PROJECT MANAGER:						ADDRESS:													
ADDRESS:						PHONE:		FAX:											
P.O. #:						E-MAIL:													
INVOICE TO COMPANY:																			
ATTENTION:																			
ADDRESS:																			
SAMPLE I.D.						DATE	TIME	TYPE	LAB#										
S. 111855912 . 11.10.18. HGT. MIL 75.10						11/16/18	9570	SOV	11										
2.																			
3.																			
4.																			
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):
 1. Relinquished By: Fraser Ojala, GHD; 11/16/18, 1444
 Received By: [Signature] ALS 11/16/18 1444
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis
 5 3 2 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 5 3 1 SAME DAY
 OTHER: _____
 Specify: _____

*Turnaround request less than standard may incur Rush Charges



December 7, 2018

Mr. Mike Noll
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Mr. Noll,

On December 5th, 8 samples were received by our laboratory and assigned our laboratory project number EV18120018. The project was identified as your Cascade Village - SSOW Ref Code 11185912-2018-02. 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: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village - SSOW Ref Code
 11185912-2018-02

DATE: 12/7/2018
 ALS JOB#: EV18120018
 ALS SAMPLE#: EV18120018-01
 DATE RECEIVED: 12/05/2018
 COLLECTION DATE: 12/3/2018 12:20:00 PM

CLIENT SAMPLE ID MW-3 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	12/05/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	12/05/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/05/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Tetrachloroethylene	EPA-8260	4.1	2.0	1	UG/L	12/05/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/05/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-01
CLIENT SAMPLE ID	MW-3	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 12:20:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/05/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.6	12/05/2018	DLC
4-Bromofluorobenzene	EPA-8260	104	12/05/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-02
CLIENT SAMPLE ID	MW-5	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 12:55:00 PM
		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	12/05/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	12/05/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/05/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Tetrachloroethylene	EPA-8260	3.7	2.0	1	UG/L	12/05/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/05/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-02
CLIENT SAMPLE ID	MW-5	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 12:55:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/05/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	101	12/05/2018	DLC
4-Bromofluorobenzene	EPA-8260	104	12/05/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-03
		DATE RECEIVED:	12/05/2018
CLIENT SAMPLE ID	MW-2	COLLECTION DATE:	12/3/2018 2:07:00 PM
		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	12/05/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Vinyl Chloride	EPA-8260	27	0.20	1	UG/L	12/05/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethene	EPA-8260	7.8	2.0	1	UG/L	12/05/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/05/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	280	200	100	UG/L	12/06/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichloroethene	EPA-8260	240	200	100	UG/L	12/06/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Tetrachloroethylene	EPA-8260	12000	2000	1000	UG/L	12/06/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/05/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-03
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 2:07:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/05/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	93.9	12/05/2018	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	102	12/06/2018	DLC
1,2-Dichloroethane-d4 1000X Dilution	EPA-8260	102	12/06/2018	DLC
4-Bromofluorobenzene	EPA-8260	101	12/05/2018	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	99.3	12/06/2018	DLC
4-Bromofluorobenzene 1000X Dilution	EPA-8260	97.9	12/06/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-04
CLIENT SAMPLE ID	MW-7A	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 2:40:00 PM
		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	12/05/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Vinyl Chloride	EPA-8260	14	0.20	1	UG/L	12/05/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/05/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	2.2	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	190	6.8	100	UG/L	12/06/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichloroethene	EPA-8260	110	5.4	100	UG/L	12/06/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Tetrachloroethylene	EPA-8260	2300	200	100	UG/L	12/06/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/05/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-04
CLIENT SAMPLE ID	MW-7A	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 2:40:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/05/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.7	12/05/2018	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	104	12/06/2018	DLC
4-Bromofluorobenzene	EPA-8260	101	12/05/2018	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	98.0	12/06/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-05
CLIENT SAMPLE ID	MW-7B	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 3:12:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Vinyl Chloride	EPA-8260	180	20	100	UG/L	12/06/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethene	EPA-8260	24	2.0	1	UG/L	12/05/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/05/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	3.4	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	860	200	100	UG/L	12/06/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trichloroethene	EPA-8260	400	200	100	UG/L	12/06/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Tetrachloroethylene	EPA-8260	13000	2000	1000	UG/L	12/06/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/05/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-05
CLIENT SAMPLE ID	MW-7B	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 3:12:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/05/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/05/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	95.9	12/05/2018	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	101	12/06/2018	DLC
1,2-Dichloroethane-d4 1000X Dilution	EPA-8260	104	12/06/2018	DLC
4-Bromofluorobenzene	EPA-8260	103	12/05/2018	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	95.5	12/06/2018	DLC
4-Bromofluorobenzene 1000X Dilution	EPA-8260	95.4	12/06/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-06
CLIENT SAMPLE ID	MW-1	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 3:45:00 PM
		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	12/06/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	12/06/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/06/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/06/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-06
CLIENT SAMPLE ID	MW-1	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 3:45:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/06/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104	12/06/2018	DLC
4-Bromofluorobenzene	EPA-8260	98.5	12/06/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-07
CLIENT SAMPLE ID	MW-6A	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 4:15:00 PM
		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	12/06/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	12/06/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/06/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/06/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-07
CLIENT SAMPLE ID	MW-6A	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 4:15:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/06/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	104	12/06/2018	DLC
4-Bromofluorobenzene	EPA-8260	101	12/06/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-08
CLIENT SAMPLE ID	MW-6B	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 4:50:00 PM
		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	12/06/2018	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	12/06/2018	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	12/06/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Tetrachloroethylene	EPA-8260	2.5	2.0	1	UG/L	12/06/2018	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	12/06/2018	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV18120018
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02	ALS SAMPLE#:	EV18120018-08
CLIENT SAMPLE ID	MW-6B	DATE RECEIVED:	12/05/2018
		COLLECTION DATE:	12/3/2018 4:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	12/06/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	12/06/2018	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	105	12/06/2018	DLC
4-Bromofluorobenzene	EPA-8260	102	12/06/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village - SSOW Ref Code
 11185912-2018-02

DATE: 12/7/2018
 ALS SDG#: EV18120018
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-120518W - Batch 135324 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	12/05/2018	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	12/05/2018	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Chloroform	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Toluene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	12/05/2018	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Bromoform	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	12/7/2018
		ALS SDG#:	EV18120018
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Mike Noll		
CLIENT PROJECT:	Cascade Village - SSOW Ref Code 11185912-2018-02		

LABORATORY BLANK RESULTS

MB-120518W - Batch 135324 - Water by EPA-8260

1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	12/05/2018	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	12/05/2018	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village - SSOW Ref Code
 11185912-2018-02

DATE: 12/7/2018
 ALS SDG#: EV18120018
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 135324 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	120			50	150	12/05/2018	DLC
Dichlorodifluoromethane - BSD	EPA-8260	123	3		50	150	12/05/2018	DLC
Chloromethane - BS	EPA-8260	105			50	150	12/05/2018	DLC
Chloromethane - BSD	EPA-8260	106	0		50	150	12/05/2018	DLC
Vinyl Chloride - BS	EPA-8260	103			50	150	12/05/2018	DLC
Vinyl Chloride - BSD	EPA-8260	106	3		50	150	12/05/2018	DLC
Bromomethane - BS	EPA-8260	100			50	150	12/05/2018	DLC
Bromomethane - BSD	EPA-8260	103	3		50	150	12/05/2018	DLC
Chloroethane - BS	EPA-8260	100			50	150	12/05/2018	DLC
Chloroethane - BSD	EPA-8260	102	2		50	150	12/05/2018	DLC
Carbon Tetrachloride - BS	EPA-8260	110			50	150	12/05/2018	DLC
Carbon Tetrachloride - BSD	EPA-8260	113	3		50	150	12/05/2018	DLC
Trichlorofluoromethane - BS	EPA-8260	112			50	150	12/05/2018	DLC
Trichlorofluoromethane - BSD	EPA-8260	113	1		50	150	12/05/2018	DLC
1,1-Dichloroethene - BS	EPA-8260	107			72.5	136	12/05/2018	DLC
1,1-Dichloroethene - BSD	EPA-8260	110	3		72.5	136	12/05/2018	DLC
Methylene Chloride - BS	EPA-8260	109			50	150	12/05/2018	DLC
Methylene Chloride - BSD	EPA-8260	108	1		50	150	12/05/2018	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	100			50	150	12/05/2018	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	103	2		50	150	12/05/2018	DLC
1,1-Dichloroethane - BS	EPA-8260	99.1			50	150	12/05/2018	DLC
1,1-Dichloroethane - BSD	EPA-8260	101	2		50	150	12/05/2018	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	99.6			50	150	12/05/2018	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	102	2		50	150	12/05/2018	DLC
2,2-Dichloropropane - BS	EPA-8260	117			50	150	12/05/2018	DLC
2,2-Dichloropropane - BSD	EPA-8260	118	1		50	150	12/05/2018	DLC
Bromochloromethane - BS	EPA-8260	96.3			50	150	12/05/2018	DLC
Bromochloromethane - BSD	EPA-8260	97.0	1		50	150	12/05/2018	DLC
Chloroform - BS	EPA-8260	92.9			50	150	12/05/2018	DLC
Chloroform - BSD	EPA-8260	94.8	2		50	150	12/05/2018	DLC
1,1,1-Trichloroethane - BS	EPA-8260	103			50	150	12/05/2018	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	105	2		50	150	12/05/2018	DLC
1,1-Dichloropropene - BS	EPA-8260	104			50	150	12/05/2018	DLC
1,1-Dichloropropene - BSD	EPA-8260	108	3		50	150	12/05/2018	DLC
1,2-Dichloroethane - BS	EPA-8260	94.6			50	150	12/05/2018	DLC
1,2-Dichloroethane - BSD	EPA-8260	95.0	0		50	150	12/05/2018	DLC
Trichloroethene - BS	EPA-8260	94.4			74.4	141	12/05/2018	DLC
Trichloroethene - BSD	EPA-8260	95.8	1		74.4	141	12/05/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village - SSOW Ref Code
 11185912-2018-02

DATE: 12/7/2018
 ALS SDG#: EV18120018
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,2-Dichloropropane - BS	EPA-8260	99.7			50	150	12/05/2018	DLC
1,2-Dichloropropane - BSD	EPA-8260	101	1		50	150	12/05/2018	DLC
Dibromomethane - BS	EPA-8260	98.3			50	150	12/05/2018	DLC
Dibromomethane - BSD	EPA-8260	98.5	0		50	150	12/05/2018	DLC
Bromodichloromethane - BS	EPA-8260	100			50	150	12/05/2018	DLC
Bromodichloromethane - BSD	EPA-8260	101	1		50	150	12/05/2018	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	106			50	150	12/05/2018	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	106	0		50	150	12/05/2018	DLC
Toluene - BS	EPA-8260	96.5			71.7	139	12/05/2018	DLC
Toluene - BSD	EPA-8260	98.6	2		71.7	139	12/05/2018	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	104			50	150	12/05/2018	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	106	1		50	150	12/05/2018	DLC
1,1,2-Trichloroethane - BS	EPA-8260	98.1			50	150	12/05/2018	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	98.4	0		50	150	12/05/2018	DLC
1,3-Dichloropropane - BS	EPA-8260	99.9			50	150	12/05/2018	DLC
1,3-Dichloropropane - BSD	EPA-8260	99.9	0		50	150	12/05/2018	DLC
Tetrachloroethylene - BS	EPA-8260	95.8			50	150	12/05/2018	DLC
Tetrachloroethylene - BSD	EPA-8260	98.3	3		50	150	12/05/2018	DLC
Dibromochloromethane - BS	EPA-8260	101			50	150	12/05/2018	DLC
Dibromochloromethane - BSD	EPA-8260	101	0		50	150	12/05/2018	DLC
1,2-Dibromoethane - BS	EPA-8260	106			50	150	12/05/2018	DLC
1,2-Dibromoethane - BSD	EPA-8260	105	0		50	150	12/05/2018	DLC
Chlorobenzene - BS	EPA-8260	101			73	131	12/05/2018	DLC
Chlorobenzene - BSD	EPA-8260	102	1		73	131	12/05/2018	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	100			50	150	12/05/2018	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	101	1		50	150	12/05/2018	DLC
Bromoform - BS	EPA-8260	102			50	150	12/05/2018	DLC
Bromoform - BSD	EPA-8260	101	1		50	150	12/05/2018	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	95.5			50	150	12/05/2018	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	95.0	1		50	150	12/05/2018	DLC
1,2,3-Trichloropropane - BS	EPA-8260	99.1			50	150	12/05/2018	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	97.5	2		50	150	12/05/2018	DLC
Bromobenzene - BS	EPA-8260	98.7			50	150	12/05/2018	DLC
Bromobenzene - BSD	EPA-8260	99.7	1		50	150	12/05/2018	DLC
2-Chlorotoluene - BS	EPA-8260	99.0			50	150	12/05/2018	DLC
2-Chlorotoluene - BSD	EPA-8260	100	1		50	150	12/05/2018	DLC
4-Chlorotoluene - BS	EPA-8260	102			50	150	12/05/2018	DLC
4-Chlorotoluene - BSD	EPA-8260	104	2		50	150	12/05/2018	DLC
1,3-Dichlorobenzene - BS	EPA-8260	102			50	150	12/05/2018	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village - SSOW Ref Code
 11185912-2018-02

DATE: 12/7/2018
 ALS SDG#: EV18120018
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,3-Dichlorobenzene - BSD	EPA-8260	103	2		50	150	12/05/2018	DLC
1,4-Dichlorobenzene - BS	EPA-8260	102			50	150	12/05/2018	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	104	2		50	150	12/05/2018	DLC
1,2-Dichlorobenzene - BS	EPA-8260	102			50	150	12/05/2018	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	104	2		50	150	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	105			50	150	12/05/2018	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	105	0		50	150	12/05/2018	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	92.5			50	150	12/05/2018	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	97.8	6		50	150	12/05/2018	DLC
Hexachlorobutadiene - BS	EPA-8260	108			50	150	12/05/2018	DLC
Hexachlorobutadiene - BSD	EPA-8260	112	4		50	150	12/05/2018	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	92.5			50	150	12/05/2018	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	97.7	6		50	150	12/05/2018	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# (Laboratory Use Only)

EV18120018

Date 12/3/18 ^{US} Page 1 Of 1

PROJECT ID: <u>CASCADE VILLAGE</u>					ANALYSIS REQUESTED										OTHER (Specify)								
REPORT TO COMPANY: <u>GHD</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> P/P <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>																		
PROJECT MANAGER: <u>MIKE NOLL</u>																							
ADDRESS: <u>20818 44TH AVE W. SUITE 190</u>																							
<u>LYNNWOOD, WA 98036</u>																							
PHONE: <u>(425) 563-6511</u> P.O. #: <u>34032029</u>																							
E-MAIL: <u>MICHAEL.NOLL@GHD.COM</u>																							
INVOICE TO COMPANY: <u>GHD</u>																							
ATTENTION:																							
ADDRESS:																							
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																		NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?
1. MW-3	12/3/18	1220	WT	1																		3	
2. MW-5		1255		2																		3	
3. MW-2		1407		3																		3	
4. MW-7A		1440		4																		3	
5. MW-7B		1512		5																		3	
6. MW-1		1545		6																		3	
7. MW-6A		1615		7																		3	
8. MW-6B		1650		8																		3	
9.																							
10.																							

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Mike, BTS, 12/3/18
 Received By: [Signature], BTS, 12/3/18
 2. Relinquished By: [Signature], BTS, 12/5/18 @ 1315
 Received By: Shawn Robinson ALS 12/5/18 1315

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis

10 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

5 3 1 SAME DAY

OTHER:

Specify: _____

*Turnaround request less than standard may incur Rush Charges



May 8, 2019

Mr. Mike Noll
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Mr. Noll,

On May 3rd, 4 samples were received by our laboratory and assigned our laboratory project number EV19050015. The project was identified as your Cascade Village. 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:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
		ALS JOB#:	EV19050015
CLIENT CONTACT:	Mike Noll	ALS SAMPLE#:	EV19050015-01
CLIENT PROJECT:	Cascade Village	DATE RECEIVED:	05/03/2019
CLIENT SAMPLE ID	MW-2	COLLECTION DATE:	5/2/2019 10:39:00 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	05/04/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Vinyl Chloride	EPA-8260	29	0.20	1	UG/L	05/04/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethene	EPA-8260	9.0	2.0	1	UG/L	05/04/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	05/04/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	330	200	100	UG/L	05/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichloroethene	EPA-8260	350	200	100	UG/L	05/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Tetrachloroethylene	EPA-8260	16000	1000	500	UG/L	05/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	05/04/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-01
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 10:39:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	05/04/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	89.9	05/04/2019	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	87.0	05/06/2019	DLC
1,2-Dichloroethane-d4 500X Dilution	EPA-8260	92.5	05/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	96.1	05/04/2019	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	99.7	05/06/2019	DLC
4-Bromofluorobenzene 500X Dilution	EPA-8260	100	05/06/2019	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-02
CLIENT SAMPLE ID	MW-7A	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 10:17:00 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	05/04/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Vinyl Chloride	EPA-8260	U	0.20	1	UG/L	05/04/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	05/04/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	69	11	50	UG/L	05/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichloroethene	EPA-8260	68	1.3	50	UG/L	05/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Tetrachloroethylene	EPA-8260	1400	100	50	UG/L	05/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	05/04/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-02
CLIENT SAMPLE ID	MW-7A	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 10:17:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	05/04/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	87.4	05/04/2019	DLC
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	93.1	05/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	97.9	05/04/2019	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	101	05/06/2019	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-03
CLIENT SAMPLE ID	MW-7B	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 9:54:00 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	05/04/2019	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Vinyl Chloride	EPA-8260	210	20	100	UG/L	05/06/2019	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethene	EPA-8260	24	2.0	1	UG/L	05/04/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	05/04/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	4.6	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	1000	200	100	UG/L	05/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichloroethene	EPA-8260	610	200	100	UG/L	05/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Tetrachloroethylene	EPA-8260	18000	1000	500	UG/L	05/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	05/04/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-03
CLIENT SAMPLE ID	MW-7B	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 9:54:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	05/04/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	91.1	05/04/2019	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	90.3	05/06/2019	DLC
1,2-Dichloroethane-d4 500X Dilution	EPA-8260	88.2	05/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	95.5	05/04/2019	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	102	05/06/2019	DLC
4-Bromofluorobenzene 500X Dilution	EPA-8260	98.3	05/06/2019	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-04
CLIENT SAMPLE ID	PIPE	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 11:07:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloromethane	EPA-8260	24	2.0	1	UG/L	05/04/2019	DLC
Vinyl Chloride	EPA-8260	0.46	0.20	1	UG/L	05/04/2019	DLC
Bromomethane	EPA-8260	3.7	2.0	1	UG/L	05/04/2019	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	05/04/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	6.2	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	240	200	100	UG/L	05/06/2019	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Chloroform	EPA-8260	14	2.0	1	UG/L	05/04/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trichloroethene	EPA-8260	3700	200	100	UG/L	05/06/2019	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Tetrachloroethylene	EPA-8260	23000	2000	1000	UG/L	05/06/2019	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	05/04/2019	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	2.9	2.0	1	UG/L	05/04/2019	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	5.2	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV19050015
CLIENT PROJECT:	Cascade Village	ALS SAMPLE#:	EV19050015-04
CLIENT SAMPLE ID	PIPE	DATE RECEIVED:	05/03/2019
		COLLECTION DATE:	5/2/2019 11:07:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	05/04/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	05/04/2019	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	05/04/2019	DLC
1,2-Dichloroethane-d4 1000X Dilution	EPA-8260	88.9	05/06/2019	DLC
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	89.3	05/06/2019	DLC
4-Bromofluorobenzene	EPA-8260	93.3	05/04/2019	DLC
4-Bromofluorobenzene 1000X Dilution	EPA-8260	97.7	05/06/2019	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	98.3	05/06/2019	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village

DATE: 5/8/2019
 ALS SDG#: EV19050015
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-050319W - Batch 140545 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	05/03/2019	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	05/03/2019	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Chloroform	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Toluene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	05/03/2019	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Bromoform	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	5/8/2019
		ALS SDG#:	EV19050015
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Mike Noll		
CLIENT PROJECT:	Cascade Village		

LABORATORY BLANK RESULTS

MB-050319W - Batch 140545 - Water by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	05/03/2019	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	05/03/2019	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village

DATE: 5/8/2019
 ALS SDG#: EV19050015
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 140545 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	106			50	150	05/03/2019	DLC
Dichlorodifluoromethane - BSD	EPA-8260	103	3		50	150	05/03/2019	DLC
Chloromethane - BS	EPA-8260	124			50	150	05/03/2019	DLC
Chloromethane - BSD	EPA-8260	122	2		50	150	05/03/2019	DLC
Vinyl Chloride - BS	EPA-8260	108			50	150	05/03/2019	DLC
Vinyl Chloride - BSD	EPA-8260	105	3		50	150	05/03/2019	DLC
Bromomethane - BS	EPA-8260	98.7			50	150	05/03/2019	DLC
Bromomethane - BSD	EPA-8260	98.6	0		50	150	05/03/2019	DLC
Chloroethane - BS	EPA-8260	98.7			50	150	05/03/2019	DLC
Chloroethane - BSD	EPA-8260	97.3	1		50	150	05/03/2019	DLC
Carbon Tetrachloride - BS	EPA-8260	109			50	150	05/03/2019	DLC
Carbon Tetrachloride - BSD	EPA-8260	109	0		50	150	05/03/2019	DLC
Trichlorofluoromethane - BS	EPA-8260	108			50	150	05/03/2019	DLC
Trichlorofluoromethane - BSD	EPA-8260	106	2		50	150	05/03/2019	DLC
1,1-Dichloroethene - BS	EPA-8260	106			72.5	136	05/03/2019	DLC
1,1-Dichloroethene - BSD	EPA-8260	104	2		72.5	136	05/03/2019	DLC
Methylene Chloride - BS	EPA-8260	95.0			50	150	05/03/2019	DLC
Methylene Chloride - BSD	EPA-8260	97.4	2		50	150	05/03/2019	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	99.5			50	150	05/03/2019	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	98.1	1		50	150	05/03/2019	DLC
1,1-Dichloroethane - BS	EPA-8260	98.9			50	150	05/03/2019	DLC
1,1-Dichloroethane - BSD	EPA-8260	98.7	0		50	150	05/03/2019	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	93.9			50	150	05/03/2019	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	94.5	1		50	150	05/03/2019	DLC
2,2-Dichloropropane - BS	EPA-8260	109			50	150	05/03/2019	DLC
2,2-Dichloropropane - BSD	EPA-8260	106	3		50	150	05/03/2019	DLC
Bromochloromethane - BS	EPA-8260	89.1			50	150	05/03/2019	DLC
Bromochloromethane - BSD	EPA-8260	90.4	1		50	150	05/03/2019	DLC
Chloroform - BS	EPA-8260	104			50	150	05/03/2019	DLC
Chloroform - BSD	EPA-8260	104	1		50	150	05/03/2019	DLC
1,1,1-Trichloroethane - BS	EPA-8260	102			50	150	05/03/2019	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	101	1		50	150	05/03/2019	DLC
1,1-Dichloropropene - BS	EPA-8260	105			50	150	05/03/2019	DLC
1,1-Dichloropropene - BSD	EPA-8260	103	2		50	150	05/03/2019	DLC
1,2-Dichloroethane - BS	EPA-8260	109			50	150	05/03/2019	DLC
1,2-Dichloroethane - BSD	EPA-8260	110	0		50	150	05/03/2019	DLC
Trichloroethene - BS	EPA-8260	105			74.4	141	05/03/2019	DLC
Trichloroethene - BSD	EPA-8260	102	2		74.4	141	05/03/2019	DLC
1,2-Dichloropropane - BS	EPA-8260	107			50	150	05/03/2019	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village

DATE: 5/8/2019
 ALS SDG#: EV19050015
 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	106	1		50	150	05/03/2019	DLC
Dibromomethane - BS	EPA-8260	101			50	150	05/03/2019	DLC
Dibromomethane - BSD	EPA-8260	100	0		50	150	05/03/2019	DLC
Bromodichloromethane - BS	EPA-8260	104			50	150	05/03/2019	DLC
Bromodichloromethane - BSD	EPA-8260	104	1		50	150	05/03/2019	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	94.9			50	150	05/03/2019	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	95.4	1		50	150	05/03/2019	DLC
Toluene - BS	EPA-8260	106			71.7	139	05/03/2019	DLC
Toluene - BSD	EPA-8260	104	2		71.7	139	05/03/2019	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	95.9			50	150	05/03/2019	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	95.3	1		50	150	05/03/2019	DLC
1,1,2-Trichloroethane - BS	EPA-8260	103			50	150	05/03/2019	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	104	1		50	150	05/03/2019	DLC
1,3-Dichloropropane - BS	EPA-8260	105			50	150	05/03/2019	DLC
1,3-Dichloropropane - BSD	EPA-8260	107	1		50	150	05/03/2019	DLC
Tetrachloroethylene - BS	EPA-8260	98.6			50	150	05/03/2019	DLC
Tetrachloroethylene - BSD	EPA-8260	102	3		50	150	05/03/2019	DLC
Dibromochloromethane - BS	EPA-8260	102			50	150	05/03/2019	DLC
Dibromochloromethane - BSD	EPA-8260	104	2		50	150	05/03/2019	DLC
1,2-Dibromoethane - BS	EPA-8260	113			50	150	05/03/2019	DLC
1,2-Dibromoethane - BSD	EPA-8260	115	2		50	150	05/03/2019	DLC
Chlorobenzene - BS	EPA-8260	106			73	131	05/03/2019	DLC
Chlorobenzene - BSD	EPA-8260	106	1		73	131	05/03/2019	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	101			50	150	05/03/2019	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	103	1		50	150	05/03/2019	DLC
Bromoform - BS	EPA-8260	102			50	150	05/03/2019	DLC
Bromoform - BSD	EPA-8260	104	2		50	150	05/03/2019	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	94.4			50	150	05/03/2019	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	98.8	5		50	150	05/03/2019	DLC
1,2,3-Trichloropropane - BS	EPA-8260	98.9			50	150	05/03/2019	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	104	5		50	150	05/03/2019	DLC
Bromobenzene - BS	EPA-8260	98.6			50	150	05/03/2019	DLC
Bromobenzene - BSD	EPA-8260	101	3		50	150	05/03/2019	DLC
2-Chlorotoluene - BS	EPA-8260	100			50	150	05/03/2019	DLC
2-Chlorotoluene - BSD	EPA-8260	103	3		50	150	05/03/2019	DLC
4-Chlorotoluene - BS	EPA-8260	100			50	150	05/03/2019	DLC
4-Chlorotoluene - BSD	EPA-8260	103	3		50	150	05/03/2019	DLC
1,3-Dichlorobenzene - BS	EPA-8260	102			50	150	05/03/2019	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	107	5		50	150	05/03/2019	DLC
1,4-Dichlorobenzene - BS	EPA-8260	102			50	150	05/03/2019	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village

DATE: 5/8/2019
 ALS SDG#: EV19050015
 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	107	5		50	150	05/03/2019	DLC
1,2-Dichlorobenzene - BS	EPA-8260	102			50	150	05/03/2019	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	106	4		50	150	05/03/2019	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	89.2			50	150	05/03/2019	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	94.3	5		50	150	05/03/2019	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	102			50	150	05/03/2019	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	107	4		50	150	05/03/2019	DLC
Hexachlorobutadiene - BS	EPA-8260	97.6			50	150	05/03/2019	DLC
Hexachlorobutadiene - BSD	EPA-8260	99.8	2		50	150	05/03/2019	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	102			50	150	05/03/2019	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	107	4		50	150	05/03/2019	DLC

APPROVED BY

Laboratory Director



August 31, 2020

Mr. Mike Noll
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Mr. Noll,

On August 18th, 5 samples were received by our laboratory and assigned our laboratory project number EV20080086. The project was identified as your 11215715. 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:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-01
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-5'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 11:05:00 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	08/19/2020	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	08/19/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	08/19/2020	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-01
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-5'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 11:05:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	08/19/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	93.8	08/19/2020	DLC
4-Bromofluorobenzene	EPA-8260	103	08/19/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-02
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-7'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 11:10:00 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	08/19/2020	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	08/19/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	08/19/2020	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-02
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-7'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 11:10:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	08/19/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	96.4	08/19/2020	DLC
4-Bromofluorobenzene	EPA-8260	101	08/19/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-03
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-20'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 12:40:00 PM
		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	08/19/2020	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	08/19/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	08/19/2020	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-03
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-20'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 12:40:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	08/19/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/19/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	94.4	08/19/2020	DLC
4-Bromofluorobenzene	EPA-8260	104	08/19/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-04
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-27'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 12:45:00 PM
		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	08/27/2020	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	08/27/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	08/27/2020	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-04
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-27'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 12:45:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	08/27/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	08/27/2020	DLC
4-Bromofluorobenzene	EPA-8260	101	08/27/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-05
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-35'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 12:50:00 PM
		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	08/27/2020	DLC
Chloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Vinyl Chloride	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromomethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Chloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Carbon Tetrachloride	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Trichlorofluoromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Methylene Chloride	EPA-8260	U	0.020	1	MG/KG	08/27/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
2,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Chloroform	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Trichloroethene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Dibromomethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromodichloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,3-Dichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Tetrachloroethylene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Dibromochloromethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.0050	1	MG/KG	08/27/2020	DLC
Chlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromoform	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Bromobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
2-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
4-Chlorotoluene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	8/31/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20080086
CLIENT PROJECT:	11215715	ALS SAMPLE#:	EV20080086-05
CLIENT SAMPLE ID	S.11215715.81720.EB.MW-8B-35'	DATE RECEIVED:	08/18/2020
		COLLECTION DATE:	8/17/2020 12:50:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	0.050	1	MG/KG	08/27/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
Hexachlorobutadiene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	0.010	1	MG/KG	08/27/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	101	08/27/2020	DLC
4-Bromofluorobenzene	EPA-8260	96.7	08/27/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-081920S - Batch 156713 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	08/19/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Toluene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	08/19/2020	DLC
Chlorobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-081920S - Batch 156713 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	08/19/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	08/19/2020	DLC

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

MB-082720S - Batch 156878 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Chloromethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Vinyl Chloride	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Bromomethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Chloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Carbon Tetrachloride	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Trichlorofluoromethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1-Dichloroethene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Methylene Chloride	EPA-8260	U	MG/KG	0.020	08/27/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1-Dichloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
2,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Bromochloromethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Chloroform	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1-Dichloropropene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2-Dichloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Trichloroethene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2-Dichloropropane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Dibromomethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Bromodichloromethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Toluene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,3-Dichloropropane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Tetrachloroethylene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Dibromochloromethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2-Dibromoethane	EPA-8260	U	MG/KG	0.0050	08/27/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-082720S - Batch 156878 - Soil by EPA-8260

Chlorobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Bromoform	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Bromobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
2-Chlorotoluene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
4-Chlorotoluene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	MG/KG	0.050	08/27/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
Hexachlorobutadiene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	MG/KG	0.010	08/27/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 156713 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	70.2			50	150	08/19/2020	DLC
Dichlorodifluoromethane - BSD	EPA-8260	66.2	6		50	150	08/19/2020	DLC
Chloromethane - BS	EPA-8260	84.3			50	150	08/19/2020	DLC
Chloromethane - BSD	EPA-8260	78.3	7		50	150	08/19/2020	DLC
Vinyl Chloride - BS	EPA-8260	76.3			50	150	08/19/2020	DLC
Vinyl Chloride - BSD	EPA-8260	72.4	5		50	150	08/19/2020	DLC
Bromomethane - BS	EPA-8260	83.5			50	150	08/19/2020	DLC
Bromomethane - BSD	EPA-8260	80.8	3		50	150	08/19/2020	DLC
Chloroethane - BS	EPA-8260	105			50	150	08/19/2020	DLC
Chloroethane - BSD	EPA-8260	102	3		50	150	08/19/2020	DLC
Carbon Tetrachloride - BS	EPA-8260	100			50	150	08/19/2020	DLC
Carbon Tetrachloride - BSD	EPA-8260	93.8	7		50	150	08/19/2020	DLC
Trichlorofluoromethane - BS	EPA-8260	90.4			50	150	08/19/2020	DLC
Trichlorofluoromethane - BSD	EPA-8260	85.8	5		50	150	08/19/2020	DLC
1,1-Dichloroethene - BS	EPA-8260	116			70	130	08/19/2020	DLC
1,1-Dichloroethene - BSD	EPA-8260	112	4		70	130	08/19/2020	DLC
Methylene Chloride - BS	EPA-8260	50.2			50	150	08/19/2020	DLC
Methylene Chloride - BSD	EPA-8260	44.5	12	LCS01	50	150	08/19/2020	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	99.2			50	150	08/19/2020	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	93.7	6		50	150	08/19/2020	DLC
1,1-Dichloroethane - BS	EPA-8260	91.2			50	150	08/19/2020	DLC
1,1-Dichloroethane - BSD	EPA-8260	86.1	6		50	150	08/19/2020	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	115			50	150	08/19/2020	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	114	1		50	150	08/19/2020	DLC
2,2-Dichloropropane - BS	EPA-8260	97.4			50	150	08/19/2020	DLC
2,2-Dichloropropane - BSD	EPA-8260	93.9	4		50	150	08/19/2020	DLC
Bromochloromethane - BS	EPA-8260	101			50	150	08/19/2020	DLC
Bromochloromethane - BSD	EPA-8260	97.4	4		50	150	08/19/2020	DLC
Chloroform - BS	EPA-8260	101			50	150	08/19/2020	DLC
Chloroform - BSD	EPA-8260	97.6	4		50	150	08/19/2020	DLC
1,1,1-Trichloroethane - BS	EPA-8260	96.2			50	150	08/19/2020	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	92.3	4		50	150	08/19/2020	DLC
1,1-Dichloropropene - BS	EPA-8260	91.4			50	150	08/19/2020	DLC
1,1-Dichloropropene - BSD	EPA-8260	86.9	5		50	150	08/19/2020	DLC
1,2-Dichloroethane - BS	EPA-8260	98.8			50	150	08/19/2020	DLC
1,2-Dichloroethane - BSD	EPA-8260	97.6	1		50	150	08/19/2020	DLC
Trichloroethene - BS	EPA-8260	88.0			75	136	08/19/2020	DLC
Trichloroethene - BSD	EPA-8260	85.6	3		75	136	08/19/2020	DLC
1,2-Dichloropropane - BS	EPA-8260	95.6			50	150	08/19/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 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	93.9	2		50	150	08/19/2020	DLC
Dibromomethane - BS	EPA-8260	90.3			50	150	08/19/2020	DLC
Dibromomethane - BSD	EPA-8260	88.6	2		50	150	08/19/2020	DLC
Bromodichloromethane - BS	EPA-8260	87.7			50	150	08/19/2020	DLC
Bromodichloromethane - BSD	EPA-8260	87.1	1		50	150	08/19/2020	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	95.2			50	150	08/19/2020	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	92.6	3		50	150	08/19/2020	DLC
Toluene - BS	EPA-8260	91.2			71.6	122.1	08/19/2020	DLC
Toluene - BSD	EPA-8260	89.0	2		71.6	122.1	08/19/2020	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	96.3			50	150	08/19/2020	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	93.3	3		50	150	08/19/2020	DLC
1,1,2-Trichloroethane - BS	EPA-8260	103			50	150	08/19/2020	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	99.1	4		50	150	08/19/2020	DLC
1,3-Dichloropropane - BS	EPA-8260	105			50	150	08/19/2020	DLC
1,3-Dichloropropane - BSD	EPA-8260	101	4		50	150	08/19/2020	DLC
Tetrachloroethylene - BS	EPA-8260	99.4			50	150	08/19/2020	DLC
Tetrachloroethylene - BSD	EPA-8260	97.3	2		50	150	08/19/2020	DLC
Dibromochloromethane - BS	EPA-8260	96.7			50	150	08/19/2020	DLC
Dibromochloromethane - BSD	EPA-8260	94.3	2		50	150	08/19/2020	DLC
1,2-Dibromoethane - BS	EPA-8260	113			50	150	08/19/2020	DLC
1,2-Dibromoethane - BSD	EPA-8260	111	2		50	150	08/19/2020	DLC
Chlorobenzene - BS	EPA-8260	93.1			79	128	08/19/2020	DLC
Chlorobenzene - BSD	EPA-8260	90.7	3		79	128	08/19/2020	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	101			50	150	08/19/2020	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	99.8	2		50	150	08/19/2020	DLC
Bromoform - BS	EPA-8260	96.4			50	150	08/19/2020	DLC
Bromoform - BSD	EPA-8260	92.0	5		50	150	08/19/2020	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	88.8			50	150	08/19/2020	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	87.7	1		50	150	08/19/2020	DLC
1,2,3-Trichloropropane - BS	EPA-8260	96.6			50	150	08/19/2020	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	90.9	6		50	150	08/19/2020	DLC
Bromobenzene - BS	EPA-8260	91.2			50	150	08/19/2020	DLC
Bromobenzene - BSD	EPA-8260	92.6	2		50	150	08/19/2020	DLC
2-Chlorotoluene - BS	EPA-8260	89.9			50	150	08/19/2020	DLC
2-Chlorotoluene - BSD	EPA-8260	87.9	2		50	150	08/19/2020	DLC
4-Chlorotoluene - BS	EPA-8260	90.0			50	150	08/19/2020	DLC
4-Chlorotoluene - BSD	EPA-8260	88.3	2		50	150	08/19/2020	DLC
1,3-Dichlorobenzene - BS	EPA-8260	91.2			50	150	08/19/2020	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	91.2	0		50	150	08/19/2020	DLC
1,4-Dichlorobenzene - BS	EPA-8260	90.2			50	150	08/19/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 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	92.7	3		50	150	08/19/2020	DLC
1,2-Dichlorobenzene - BS	EPA-8260	98.0			50	150	08/19/2020	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	96.7	1		50	150	08/19/2020	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	97.4			50	150	08/19/2020	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	99.6	2		50	150	08/19/2020	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	107			50	150	08/19/2020	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	107	1		50	150	08/19/2020	DLC
Hexachlorobutadiene - BS	EPA-8260	105			50	150	08/19/2020	DLC
Hexachlorobutadiene - BSD	EPA-8260	103	2		50	150	08/19/2020	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	109			50	150	08/19/2020	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	107	2		50	150	08/19/2020	DLC

LCS01 - The LCS and/or LCSD recovery was below the lower control limit. The sample results may be biased low for this analyte:

ALS Test Batch ID: 156878 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	76.7			50	150	08/27/2020	DLC
Dichlorodifluoromethane - BSD	EPA-8260	69.0	11		50	150	08/27/2020	DLC
Chloromethane - BS	EPA-8260	99.3			50	150	08/27/2020	DLC
Chloromethane - BSD	EPA-8260	92.5	7		50	150	08/27/2020	DLC
Vinyl Chloride - BS	EPA-8260	91.9			50	150	08/27/2020	DLC
Vinyl Chloride - BSD	EPA-8260	87.1	5		50	150	08/27/2020	DLC
Bromomethane - BS	EPA-8260	90.0			50	150	08/27/2020	DLC
Bromomethane - BSD	EPA-8260	87.5	3		50	150	08/27/2020	DLC
Chloroethane - BS	EPA-8260	93.0			50	150	08/27/2020	DLC
Chloroethane - BSD	EPA-8260	88.7	5		50	150	08/27/2020	DLC
Carbon Tetrachloride - BS	EPA-8260	90.5			50	150	08/27/2020	DLC
Carbon Tetrachloride - BSD	EPA-8260	86.7	4		50	150	08/27/2020	DLC
Trichlorofluoromethane - BS	EPA-8260	92.1			50	150	08/27/2020	DLC
Trichlorofluoromethane - BSD	EPA-8260	86.1	7		50	150	08/27/2020	DLC
1,1-Dichloroethene - BS	EPA-8260	94.8			70	130	08/27/2020	DLC
1,1-Dichloroethene - BSD	EPA-8260	91.3	4		70	130	08/27/2020	DLC
Methylene Chloride - BS	EPA-8260	132			50	150	08/27/2020	DLC
Methylene Chloride - BSD	EPA-8260	128	3		50	150	08/27/2020	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	93.1			50	150	08/27/2020	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	89.9	4		50	150	08/27/2020	DLC
1,1-Dichloroethane - BS	EPA-8260	94.7			50	150	08/27/2020	DLC
1,1-Dichloroethane - BSD	EPA-8260	90.5	5		50	150	08/27/2020	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	97.8			50	150	08/27/2020	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	91.1	7		50	150	08/27/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
2,2-Dichloropropane - BS	EPA-8260	92.5			50	150	08/27/2020	DLC
2,2-Dichloropropane - BSD	EPA-8260	87.1	6		50	150	08/27/2020	DLC
Bromochloromethane - BS	EPA-8260	107			50	150	08/27/2020	DLC
Bromochloromethane - BSD	EPA-8260	106	1		50	150	08/27/2020	DLC
Chloroform - BS	EPA-8260	97.5			50	150	08/27/2020	DLC
Chloroform - BSD	EPA-8260	93.2	4		50	150	08/27/2020	DLC
1,1,1-Trichloroethane - BS	EPA-8260	89.5			50	150	08/27/2020	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	85.6	4		50	150	08/27/2020	DLC
1,1-Dichloropropene - BS	EPA-8260	90.0			50	150	08/27/2020	DLC
1,1-Dichloropropene - BSD	EPA-8260	85.4	5		50	150	08/27/2020	DLC
1,2-Dichloroethane - BS	EPA-8260	102			50	150	08/27/2020	DLC
1,2-Dichloroethane - BSD	EPA-8260	101	2		50	150	08/27/2020	DLC
Trichloroethene - BS	EPA-8260	99.2			75	136	08/27/2020	DLC
Trichloroethene - BSD	EPA-8260	93.9	5		75	136	08/27/2020	DLC
1,2-Dichloropropane - BS	EPA-8260	103			50	150	08/27/2020	DLC
1,2-Dichloropropane - BSD	EPA-8260	101	2		50	150	08/27/2020	DLC
Dibromomethane - BS	EPA-8260	88.7			50	150	08/27/2020	DLC
Dibromomethane - BSD	EPA-8260	90.8	2		50	150	08/27/2020	DLC
Bromodichloromethane - BS	EPA-8260	108			50	150	08/27/2020	DLC
Bromodichloromethane - BSD	EPA-8260	106	2		50	150	08/27/2020	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	100			50	150	08/27/2020	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	97.5	3		50	150	08/27/2020	DLC
Toluene - BS	EPA-8260	93.9			71.6	122.1	08/27/2020	DLC
Toluene - BSD	EPA-8260	90.8	3		71.6	122.1	08/27/2020	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	100			50	150	08/27/2020	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	97.4	3		50	150	08/27/2020	DLC
1,1,2-Trichloroethane - BS	EPA-8260	96.1			50	150	08/27/2020	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	95.9	0		50	150	08/27/2020	DLC
1,3-Dichloropropane - BS	EPA-8260	99.1			50	150	08/27/2020	DLC
1,3-Dichloropropane - BSD	EPA-8260	95.9	3		50	150	08/27/2020	DLC
Tetrachloroethylene - BS	EPA-8260	100			50	150	08/27/2020	DLC
Tetrachloroethylene - BSD	EPA-8260	92.9	7		50	150	08/27/2020	DLC
Dibromochloromethane - BS	EPA-8260	103			50	150	08/27/2020	DLC
Dibromochloromethane - BSD	EPA-8260	99.9	3		50	150	08/27/2020	DLC
1,2-Dibromoethane - BS	EPA-8260	103			50	150	08/27/2020	DLC
1,2-Dibromoethane - BSD	EPA-8260	101	2		50	150	08/27/2020	DLC
Chlorobenzene - BS	EPA-8260	94.1			79	128	08/27/2020	DLC
Chlorobenzene - BSD	EPA-8260	91.9	2		79	128	08/27/2020	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	95.9			50	150	08/27/2020	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	93.4	3		50	150	08/27/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: 11215715

DATE: 8/31/2020
 ALS SDG#: EV20080086
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Bromoform - BS	EPA-8260	102			50	150	08/27/2020	DLC
Bromoform - BSD	EPA-8260	101	1		50	150	08/27/2020	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	92.2			50	150	08/27/2020	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	92.0	0		50	150	08/27/2020	DLC
1,2,3-Trichloropropane - BS	EPA-8260	93.3			50	150	08/27/2020	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	93.5	0		50	150	08/27/2020	DLC
Bromobenzene - BS	EPA-8260	93.7			50	150	08/27/2020	DLC
Bromobenzene - BSD	EPA-8260	90.9	3		50	150	08/27/2020	DLC
2-Chlorotoluene - BS	EPA-8260	90.9			50	150	08/27/2020	DLC
2-Chlorotoluene - BSD	EPA-8260	86.8	5		50	150	08/27/2020	DLC
4-Chlorotoluene - BS	EPA-8260	90.7			50	150	08/27/2020	DLC
4-Chlorotoluene - BSD	EPA-8260	88.0	3		50	150	08/27/2020	DLC
1,3-Dichlorobenzene - BS	EPA-8260	88.9			50	150	08/27/2020	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	86.5	3		50	150	08/27/2020	DLC
1,4-Dichlorobenzene - BS	EPA-8260	87.9			50	150	08/27/2020	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	82.2	7		50	150	08/27/2020	DLC
1,2-Dichlorobenzene - BS	EPA-8260	91.2			50	150	08/27/2020	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	89.3	2		50	150	08/27/2020	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	93.9			50	150	08/27/2020	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	96.8	3		50	150	08/27/2020	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	91.7			50	150	08/27/2020	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	90.2	2		50	150	08/27/2020	DLC
Hexachlorobutadiene - BS	EPA-8260	89.0			50	150	08/27/2020	DLC
Hexachlorobutadiene - BSD	EPA-8260	84.1	6		50	150	08/27/2020	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	93.2			50	150	08/27/2020	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	92.6	1		50	150	08/27/2020	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# (Laboratory Use Only)

EV20080086

Date 8/17/20 Page 1 Of 1

PROJECT ID: 11215715					ANALYSIS REQUESTED												OTHER (Specify)																				
REPORT TO COMPANY: GHD					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> Pr Pol <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	PROJECT MANAGER: Mike Noll				NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?																											
ADDRESS: 20818 44th Ave W, Ste 190 Lynnwood, WA 98036																																					
PHONE: 425-563-6511 P.O. #: 340410894																																					
E-MAIL: michael.noll@ghd.com																																					
INVOICE TO COMPANY: Same																																					
ATTENTION:																																					
ADDRESS:																																					
SAMPLE I.D.																																					
DATE																																					
TIME																																					
TYPE																																					
LAB#																																					
1S-11215715-81720-EB-MW-8B-5'																																					
2S-11215715-81720-EB-MW-8B-7'																																					
5-11215715-81720-EB-MW-8B-20'																																					
4-11215715-81720-EB-MW-8B-27'																																					
5-11215715-81720-EB-MW-8B-35'																																					
6.																																					
7.																																					
8.																																					
9.																																					
10.																																					

SPECIAL INSTRUCTIONS S50W-11215715-7020-02 (X) Added 8/27/20 per Emily on standard TAT

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Emily Blakeway GHD 8/18/20 0924
 Received By: [Signature] 8/18/20 0924
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis
 70 Standard 5 3 2 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 5 Standard 3 1 SAME DAY

OTHER:
 Specify: _____

*Turnaround request less than standard may incur Rush Charges



September 11, 2020

Ms. Emily Blakeway
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Ms. Blakeway,

On August 31st, 6 samples were received by our laboratory and assigned our laboratory project number EV20080155. The project was identified as your SSOW=11215715-2020-01, Cascade Village, Renton. 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

Glen Perry
Technical Manager



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-01
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Vinyl Chloride	EPA-8260	25	0.20	1	UG/L	09/02/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	8.7	2.0	1	UG/L	09/02/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-01
CLIENT SAMPLE ID	MW-2	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	98.0	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	97.7	09/02/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-01
CLIENT SAMPLE ID	MW-2D1	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	15000	1000	500	UG/L	09/04/2020	DLC
SURROGATE	METHOD	%REC				ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 500X Dilution	EPA-8260	99.9				09/04/2020	DLC
4-Bromofluorobenzene 500X Dilution	EPA-8260	97.9				09/04/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-01
CLIENT SAMPLE ID	MW-2D2	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:55:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cis-1,2-Dichloroethene	EPA-8260	360	100	50	UG/L	09/04/2020	DLC
Trichloroethene	EPA-8260	380	100	50	UG/L	09/04/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	100	09/04/2020	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	97.8	09/04/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-02
CLIENT SAMPLE ID	MW-7A	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:22:00 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	09/02/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Vinyl Chloride	EPA-8260	0.59	0.20	1	UG/L	09/02/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-02
CLIENT SAMPLE ID	MW-7A	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:22:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.6	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	97.7	09/02/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-02
CLIENT SAMPLE ID	MW-7AD1	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:22:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	1900	200	100	UG/L	09/04/2020	DLC
SURROGATE	METHOD	%REC				ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 100X Dilution	EPA-8260	100				09/04/2020	DLC
4-Bromofluorobenzene 100X Dilution	EPA-8260	97.7				09/04/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-02
CLIENT SAMPLE ID	MW-7AD2	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:22:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cis-1,2-Dichloroethene	EPA-8260	110	20	10	UG/L	09/04/2020	DLC
Trichloroethene	EPA-8260	110	20	10	UG/L	09/04/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	99.8	09/04/2020	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	98.2	09/04/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-03
CLIENT SAMPLE ID	MW-7B	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:49:00 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	09/02/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	19	2.0	1	UG/L	09/02/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	5.2	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-03
CLIENT SAMPLE ID	MW-7B	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:49:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.3	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	95.9	09/02/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-03
CLIENT SAMPLE ID	MW-7BD1	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:49:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	16000	1000	500	UG/L	09/04/2020	DLC
SURROGATE	METHOD	%REC				ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 500X Dilution	EPA-8260	101				09/04/2020	DLC
4-Bromofluorobenzene 500X Dilution	EPA-8260	98.5				09/04/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-03
CLIENT SAMPLE ID	MW-7BD2	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 10:49:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Vinyl Chloride	EPA-8260	150	10	50	UG/L	09/08/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	1000	100	50	UG/L	09/08/2020	DLC
Trichloroethene	EPA-8260	540	100	50	UG/L	09/08/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	99.3	09/08/2020	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	96.6	09/08/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-04
CLIENT SAMPLE ID	MW-8A	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 11:13:00 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	09/02/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Vinyl Chloride	EPA-8260	2.2	0.20	1	UG/L	09/02/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trichloroethene	EPA-8260	19	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-04
CLIENT SAMPLE ID	MW-8A	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 11:13:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	101	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	98.7	09/02/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-04
CLIENT SAMPLE ID	MW-8AD1	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 11:13:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cis-1,2-Dichloroethene	EPA-8260	79	20	10	UG/L	09/04/2020	DLC
Tetrachloroethylene	EPA-8260	29	20	10	UG/L	09/04/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 10X Dilution	EPA-8260	101	09/04/2020	DLC
4-Bromofluorobenzene 10X Dilution	EPA-8260	99.0	09/04/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-05
CLIENT SAMPLE ID	MW-8B	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 11:39:00 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	09/04/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Vinyl Chloride	EPA-8260	2.6	0.20	1	UG/L	09/04/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	09/04/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	3.3	2.0	1	UG/L	09/04/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Chloroform	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Trichloroethene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Tetrachloroethylene	EPA-8260	4.7	2.0	1	UG/L	09/04/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	09/04/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-05
CLIENT SAMPLE ID	MW-8B	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 11:39:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	09/04/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/04/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	100	09/04/2020	DLC
4-Bromofluorobenzene	EPA-8260	98.4	09/04/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-06
CLIENT SAMPLE ID	Pipe	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:28:00 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	09/02/2020	DLC
Chloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Vinyl Chloride	EPA-8260	0.88	0.20	1	UG/L	09/02/2020	DLC
Bromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Methylene Chloride	EPA-8260	5.3	5.0	1	UG/L	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	31	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Chloroform	EPA-8260	27	2.0	1	UG/L	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromomethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromoform	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	3.0	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Bromobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-06
CLIENT SAMPLE ID	Pipe	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:28:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	100	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	96.6	09/02/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-06
CLIENT SAMPLE ID	PipeD1	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:28:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Trichloroethene	EPA-8260	14000	1000	500	UG/L	09/04/2020	DLC
Tetrachloroethylene	EPA-8260	7300	1000	500	UG/L	09/04/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 500X Dilution	EPA-8260	101	09/04/2020	DLC
4-Bromofluorobenzene 500X Dilution	EPA-8260	98.7	09/04/2020	DLC

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

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS JOB#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	ALS SAMPLE#:	EV20080155-06
CLIENT SAMPLE ID	PipeD2	DATE RECEIVED:	08/31/2020
		COLLECTION DATE:	8/31/2020 9:28:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cis-1,2-Dichloroethene	EPA-8260	330	100	50	UG/L	09/09/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4 50X Dilution	EPA-8260	99.9	09/09/2020	DLC
4-Bromofluorobenzene 50X Dilution	EPA-8260	97.9	09/09/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Emily Blakeway
 CLIENT PROJECT: SSOW=11215715-2020-01, Cascade Village, Renton

DATE: 9/11/2020
 ALS SDG#: EV20080155
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-090220W - Batch 157019 - Water by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Chloromethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Vinyl Chloride	EPA-8260	U	UG/L	0.20	09/02/2020	DLC
Bromomethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Chloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Methylene Chloride	EPA-8260	U	UG/L	5.0	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Chloroform	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Trichloroethene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Dibromomethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Toluene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Tetrachloroethylene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	UG/L	0.010	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Bromoform	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Bromobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services DATE: 9/11/2020
20818 - 44th Ave W., Suite 190 ALS SDG#: EV20080155
Lynnwood, WA 98036 WDOE ACCREDITATION: C601

CLIENT CONTACT: Emily Blakeway
CLIENT PROJECT: SSOW=11215715-2020-01, Cascade
Village, Renton

LABORATORY BLANK RESULTS

MB-090220W - Batch 157019 - Water by EPA-8260

1,3-Dichlorobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/L	10	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/L	2.0	09/02/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Emily Blakeway
 CLIENT PROJECT: SSOW=11215715-2020-01, Cascade Village, Renton

DATE: 9/11/2020
 ALS SDG#: EV20080155
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 157019 - Water by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	111			50	150	09/02/2020	DLC
Dichlorodifluoromethane - BSD	EPA-8260	107	3		50	150	09/02/2020	DLC
Chloromethane - BS	EPA-8260	104			50	150	09/02/2020	DLC
Chloromethane - BSD	EPA-8260	95.5	9		50	150	09/02/2020	DLC
Vinyl Chloride - BS	EPA-8260	99.2			50	150	09/02/2020	DLC
Vinyl Chloride - BSD	EPA-8260	96.4	3		50	150	09/02/2020	DLC
Bromomethane - BS	EPA-8260	116			50	150	09/02/2020	DLC
Bromomethane - BSD	EPA-8260	112	4		50	150	09/02/2020	DLC
Chloroethane - BS	EPA-8260	103			50	150	09/02/2020	DLC
Chloroethane - BSD	EPA-8260	96.6	6		50	150	09/02/2020	DLC
Carbon Tetrachloride - BS	EPA-8260	106			50	150	09/02/2020	DLC
Carbon Tetrachloride - BSD	EPA-8260	102	4		50	150	09/02/2020	DLC
Trichlorofluoromethane - BS	EPA-8260	109			50	150	09/02/2020	DLC
Trichlorofluoromethane - BSD	EPA-8260	106	3		50	150	09/02/2020	DLC
1,1-Dichloroethene - BS	EPA-8260	97.5			72.5	136	09/02/2020	DLC
1,1-Dichloroethene - BSD	EPA-8260	93.9	4		72.5	136	09/02/2020	DLC
Methylene Chloride - BS	EPA-8260	104			50	150	09/02/2020	DLC
Methylene Chloride - BSD	EPA-8260	98.1	6		50	150	09/02/2020	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	100			50	150	09/02/2020	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	94.8	5		50	150	09/02/2020	DLC
1,1-Dichloroethane - BS	EPA-8260	101			50	150	09/02/2020	DLC
1,1-Dichloroethane - BSD	EPA-8260	95.0	6		50	150	09/02/2020	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	102			50	150	09/02/2020	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	95.4	7		50	150	09/02/2020	DLC
2,2-Dichloropropane - BS	EPA-8260	119			50	150	09/02/2020	DLC
2,2-Dichloropropane - BSD	EPA-8260	111	7		50	150	09/02/2020	DLC
Bromochloromethane - BS	EPA-8260	101			50	150	09/02/2020	DLC
Bromochloromethane - BSD	EPA-8260	95.6	6		50	150	09/02/2020	DLC
Chloroform - BS	EPA-8260	113			50	150	09/02/2020	DLC
Chloroform - BSD	EPA-8260	107	6		50	150	09/02/2020	DLC
1,1,1-Trichloroethane - BS	EPA-8260	101			50	150	09/02/2020	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	96.4	4		50	150	09/02/2020	DLC
1,1-Dichloropropene - BS	EPA-8260	102			50	150	09/02/2020	DLC
1,1-Dichloropropene - BSD	EPA-8260	97.7	4		50	150	09/02/2020	DLC
1,2-Dichloroethane - BS	EPA-8260	95.6			50	150	09/02/2020	DLC
1,2-Dichloroethane - BSD	EPA-8260	91.4	5		50	150	09/02/2020	DLC
Trichloroethene - BS	EPA-8260	92.1			74.4	141	09/02/2020	DLC
Trichloroethene - BSD	EPA-8260	88.4	4		74.4	141	09/02/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Emily Blakeway
CLIENT PROJECT: SSOW=11215715-2020-01, Cascade Village, Renton

DATE: 9/11/2020
ALS SDG#: EV20080155
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,2-Dichloropropane - BS	EPA-8260	102			50	150	09/02/2020	DLC
1,2-Dichloropropane - BSD	EPA-8260	96.4	6		50	150	09/02/2020	DLC
Dibromomethane - BS	EPA-8260	103			50	150	09/02/2020	DLC
Dibromomethane - BSD	EPA-8260	97.6	5		50	150	09/02/2020	DLC
Bromodichloromethane - BS	EPA-8260	102			50	150	09/02/2020	DLC
Bromodichloromethane - BSD	EPA-8260	96.8	5		50	150	09/02/2020	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	108			50	150	09/02/2020	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	103	5		50	150	09/02/2020	DLC
Toluene - BS	EPA-8260	97.4			71.7	139	09/02/2020	DLC
Toluene - BSD	EPA-8260	92.2	5		71.7	139	09/02/2020	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	107			50	150	09/02/2020	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	101	6		50	150	09/02/2020	DLC
1,1,2-Trichloroethane - BS	EPA-8260	102			50	150	09/02/2020	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	97.0	5		50	150	09/02/2020	DLC
1,3-Dichloropropane - BS	EPA-8260	100			50	150	09/02/2020	DLC
1,3-Dichloropropane - BSD	EPA-8260	96.2	4		50	150	09/02/2020	DLC
Tetrachloroethylene - BS	EPA-8260	95.3			50	150	09/02/2020	DLC
Tetrachloroethylene - BSD	EPA-8260	93.8	2		50	150	09/02/2020	DLC
Dibromochloromethane - BS	EPA-8260	102			50	150	09/02/2020	DLC
Dibromochloromethane - BSD	EPA-8260	96.8	5		50	150	09/02/2020	DLC
1,2-Dibromoethane - BS	EPA-8260	102			50	150	09/02/2020	DLC
1,2-Dibromoethane - BSD	EPA-8260	97.0	5		50	150	09/02/2020	DLC
Chlorobenzene - BS	EPA-8260	99.8			73	131	09/02/2020	DLC
Chlorobenzene - BSD	EPA-8260	95.0	5		73	131	09/02/2020	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	101			50	150	09/02/2020	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	95.7	5		50	150	09/02/2020	DLC
Bromoform - BS	EPA-8260	103			50	150	09/02/2020	DLC
Bromoform - BSD	EPA-8260	98.9	4		50	150	09/02/2020	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	97.0			50	150	09/02/2020	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	95.1	2		50	150	09/02/2020	DLC
1,2,3-Trichloropropane - BS	EPA-8260	95.7			50	150	09/02/2020	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	93.7	2		50	150	09/02/2020	DLC
Bromobenzene - BS	EPA-8260	97.6			50	150	09/02/2020	DLC
Bromobenzene - BSD	EPA-8260	93.9	4		50	150	09/02/2020	DLC
2-Chlorotoluene - BS	EPA-8260	94.5			50	150	09/02/2020	DLC
2-Chlorotoluene - BSD	EPA-8260	92.5	2		50	150	09/02/2020	DLC
4-Chlorotoluene - BS	EPA-8260	97.4			50	150	09/02/2020	DLC
4-Chlorotoluene - BSD	EPA-8260	93.9	4		50	150	09/02/2020	DLC
1,3-Dichlorobenzene - BS	EPA-8260	99.4			50	150	09/02/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/11/2020
CLIENT CONTACT:	Emily Blakeway	ALS SDG#:	EV20080155
CLIENT PROJECT:	SSOW=11215715-2020-01, Cascade Village, Renton	WDOE ACCREDITATION:	C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
1,3-Dichlorobenzene - BSD	EPA-8260	95.8	4		50	150	09/02/2020	DLC
1,4-Dichlorobenzene - BS	EPA-8260	101			50	150	09/02/2020	DLC
1,4-Dichlorobenzene - BSD	EPA-8260	97.4	3		50	150	09/02/2020	DLC
1,2-Dichlorobenzene - BS	EPA-8260	99.4			50	150	09/02/2020	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	96.2	3		50	150	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	104			50	150	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	95.8	8		50	150	09/02/2020	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	117			50	150	09/02/2020	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	114	3		50	150	09/02/2020	DLC
Hexachlorobutadiene - BS	EPA-8260	102			50	150	09/02/2020	DLC
Hexachlorobutadiene - BSD	EPA-8260	102	0		50	150	09/02/2020	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	119			50	150	09/02/2020	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	116	2		50	150	09/02/2020	DLC

APPROVED BY

Technical Manager



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)

EV20080155

Date 8/31/20 Page 1 Of 1

PROJECT ID: <u>SSOW-1215715-2020-01</u> , <u>Cascade Village, Renton</u> REPORT TO COMPANY: <u>GHD</u> PROJECT MANAGER: <u>Emily Blakeway</u> ADDRESS: <u>20818 44th Ave W. Suite 190</u> <u>Lynnwood, WA 98036</u> PHONE: <u>(425) 563-6502</u> P.O. #: E-MAIL: <u>Emily.Blakeway@GHD.com</u> INVOICE TO COMPANY: <u>GHD</u> ATTENTION: ADDRESS:					ANALYSIS REQUESTED													OTHER (Specify)														
					NWTPH-HCID	NWTPH-DX	NWTPH-GX	BTEX by EPA 8021 <input type="checkbox"/>	BTEX by EPA 8260 <input type="checkbox"/>	MTBE by EPA 8021 <input type="checkbox"/>	MTBE by EPA 8260 <input type="checkbox"/>	Halogenated Volatiles by EPA 8260 B	Volatile Organic Compounds by EPA 8260	EDB / EDC by EPA 8260 SIM (water)	EDB / EDC by EPA 8260 (soil)	Semivolatile Organic Compounds by EPA 8270	Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	PCB by EPA 8082 <input type="checkbox"/>	Pesticides by EPA 8081 <input type="checkbox"/>	Metals-MTCA-5 <input type="checkbox"/>	RCRA-8 <input type="checkbox"/>	Pri Pol <input type="checkbox"/>	TAL <input type="checkbox"/>	Metals Other (Specify)	TCLP-Metals <input type="checkbox"/>	VOA <input type="checkbox"/>	Semi-Vol <input type="checkbox"/>	Pest <input type="checkbox"/>	Herbs <input type="checkbox"/>	NUMBER OF CONTAINERS	RECEIVED IN GOOD CONDITION?	
					1.	<u>MW-2</u>	<u>8/31/20</u>	<u>0955</u>	<u>W</u>	<u>1</u>		<u>X</u>																			<u>3</u>	
					2.	<u>MW-7A</u>	<u>8/31/20</u>	<u>1022</u>	<u>W</u>	<u>2</u>		<u>X</u>																			<u>3</u>	
					3.	<u>MW-7B</u>	<u>8/31/20</u>	<u>1049</u>	<u>W</u>	<u>3</u>		<u>X</u>																			<u>3</u>	
					4.	<u>MW-8A</u>	<u>8/31/20</u>	<u>1113</u>	<u>W</u>	<u>4</u>		<u>X</u>																			<u>3</u>	
					5.	<u>MW-8B</u>	<u>8/31/20</u>	<u>1139</u>	<u>W</u>	<u>5</u>		<u>X</u>																			<u>3</u>	
6.	<u>Pipe</u>	<u>8/31/20</u>	<u>0928</u>	<u>W</u>	<u>6</u>		<u>X</u>																			<u>3</u>						
7.																																
8.																																
9.																																
10.																																

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: Patrick Ho, BJS, 8/31/20, 1330

Received By: Alan Rev ALS 8/31/20 1330

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*

Organic, Metals & Inorganic Analysis OTHER: _____

Standard 5 3 2 1 SAME DAY

Fuels & Hydrocarbon Analysis

Standard 3 1 SAME DAY

Specify: _____

*Turnaround request less than standard may incur Rush Charges



September 15, 2020

Mr. Mike Noll
GHD Services
20818 - 44th Ave W., Suite 190
Lynnwood, WA 98036

Dear Mr. Noll,

On September 1st, 2 samples were received by our laboratory and assigned our laboratory project number EV20090002. The project was identified as your Cascade Village / 11215715-2020-01. 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

Glen Perry
Laboratory Manager



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/15/2020
		ALS JOB#:	EV20090002
CLIENT CONTACT:	Mike Noll	ALS SAMPLE#:	EV20090002-01
CLIENT PROJECT:	Cascade Village / 11215715-2020-01	DATE RECEIVED:	09/01/2020
CLIENT SAMPLE ID	SSG-1	COLLECTION DATE:	9/1/2020 10:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS ANALYSIS	
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Vinyl Chloride	EPA-8260	U	20	1	UG/M3	09/02/2020	DLC
Bromomethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Methylene Chloride	EPA-8260	950	500	1	UG/M3	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chloroform	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Trichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Dibromomethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Tetrachloroethylene	EPA-8260	330	200	1	UG/M3	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromoform	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/15/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20090002
CLIENT PROJECT:	Cascade Village / 11215715-2020-01	ALS SAMPLE#:	EV20090002-01
CLIENT SAMPLE ID	SSG-1	DATE RECEIVED:	09/01/2020
		COLLECTION DATE:	9/1/2020 10:30:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	1000	1	UG/M3	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	101	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	97.4	09/02/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/15/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20090002
CLIENT PROJECT:	Cascade Village / 11215715-2020-01	ALS SAMPLE#:	EV20090002-02
CLIENT SAMPLE ID	SSG-2	DATE RECEIVED:	09/01/2020
		COLLECTION DATE:	9/1/2020 10:48:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Dichlorodifluoromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Vinyl Chloride	EPA-8260	U	20	1	UG/M3	09/02/2020	DLC
Bromomethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Methylene Chloride	EPA-8260	570	500	1	UG/M3	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chloroform	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Trichloroethene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Dibromomethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Tetrachloroethylene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromoform	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Bromobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,4-Dichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/15/2020
CLIENT CONTACT:	Mike Noll	ALS JOB#:	EV20090002
CLIENT PROJECT:	Cascade Village / 11215715-2020-01	ALS SAMPLE#:	EV20090002-02
CLIENT SAMPLE ID	SSG-2	DATE RECEIVED:	09/01/2020
		COLLECTION DATE:	9/1/2020 10:48:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	1000	1	UG/M3	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	200	1	UG/M3	09/02/2020	DLC

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	103	09/02/2020	DLC
4-Bromofluorobenzene	EPA-8260	94.9	09/02/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village / 11215715-2020-01

DATE: 9/15/2020
 ALS SDG#: EV20090002
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-090220A - Batch 156960 - Air by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING	ANALYSIS	ANALYSIS
				LIMITS	DATE	BY
Dichlorodifluoromethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Chloromethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Vinyl Chloride	EPA-8260	U	UG/M3	20	09/02/2020	DLC
Bromomethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Chloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Carbon Tetrachloride	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Trichlorofluoromethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1-Dichloroethene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Methylene Chloride	EPA-8260	U	UG/M3	500	09/02/2020	DLC
Trans-1,2-Dichloroethene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1-Dichloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Cis-1,2-Dichloroethene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
2,2-Dichloropropane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Bromochloromethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Chloroform	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1,1-Trichloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1-Dichloropropene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2-Dichloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Trichloroethene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2-Dichloropropane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Dibromomethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Bromodichloromethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Trans-1,3-Dichloropropene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Toluene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Cis-1,3-Dichloropropene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1,2-Trichloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,3-Dichloropropane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Tetrachloroethylene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Dibromochloromethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2-Dibromoethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Chlorobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Bromoform	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2,3-Trichloropropane	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Bromobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
2-Chlorotoluene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
4-Chlorotoluene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,3-Dichlorobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC

CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/15/2020
		ALS SDG#:	EV20090002
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Mike Noll		
CLIENT PROJECT:	Cascade Village / 11215715-2020-01		

LABORATORY BLANK RESULTS

MB-090220A - Batch 156960 - Air by EPA-8260

1,4-Dichlorobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2-Dichlorobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/M3	1000	09/02/2020	DLC
1,2,4-Trichlorobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
Hexachlorobutadiene	EPA-8260	U	UG/M3	200	09/02/2020	DLC
1,2,3-Trichlorobenzene	EPA-8260	U	UG/M3	200	09/02/2020	DLC

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



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village / 11215715-2020-01

DATE: 9/15/2020
 ALS SDG#: EV20090002
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 156960 - Air by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	53.0			50	150	09/02/2020	DLC
Dichlorodifluoromethane - BSD	EPA-8260	48.0	10	LCS01	50	150	09/02/2020	DLC
Chloromethane - BS	EPA-8260	96.8			50	150	09/02/2020	DLC
Chloromethane - BSD	EPA-8260	90.5	7		50	150	09/02/2020	DLC
Vinyl Chloride - BS	EPA-8260	86.3			50	150	09/02/2020	DLC
Vinyl Chloride - BSD	EPA-8260	80.9	6		50	150	09/02/2020	DLC
Bromomethane - BS	EPA-8260	80.3			50	150	09/02/2020	DLC
Bromomethane - BSD	EPA-8260	80.8	1		50	150	09/02/2020	DLC
Chloroethane - BS	EPA-8260	94.0			50	150	09/02/2020	DLC
Chloroethane - BSD	EPA-8260	88.9	6		50	150	09/02/2020	DLC
Carbon Tetrachloride - BS	EPA-8260	94.2			50	150	09/02/2020	DLC
Carbon Tetrachloride - BSD	EPA-8260	91.5	3		50	150	09/02/2020	DLC
Trichlorofluoromethane - BS	EPA-8260	94.5			50	150	09/02/2020	DLC
Trichlorofluoromethane - BSD	EPA-8260	92.5	2		50	150	09/02/2020	DLC
1,1-Dichloroethene - BS	EPA-8260	95.7			72.5	136	09/02/2020	DLC
1,1-Dichloroethene - BSD	EPA-8260	95.8	0		72.5	136	09/02/2020	DLC
Methylene Chloride - BS	EPA-8260	113			50	150	09/02/2020	DLC
Methylene Chloride - BSD	EPA-8260	114	0		50	150	09/02/2020	DLC
Trans-1,2-Dichloroethene - BS	EPA-8260	94.7			50	150	09/02/2020	DLC
Trans-1,2-Dichloroethene - BSD	EPA-8260	94.8	0		50	150	09/02/2020	DLC
1,1-Dichloroethane - BS	EPA-8260	97.9			50	150	09/02/2020	DLC
1,1-Dichloroethane - BSD	EPA-8260	93.9	4		50	150	09/02/2020	DLC
Cis-1,2-Dichloroethene - BS	EPA-8260	99.9			50	150	09/02/2020	DLC
Cis-1,2-Dichloroethene - BSD	EPA-8260	97.6	2		50	150	09/02/2020	DLC
2,2-Dichloropropane - BS	EPA-8260	95.9			50	150	09/02/2020	DLC
2,2-Dichloropropane - BSD	EPA-8260	92.2	4		50	150	09/02/2020	DLC
Bromochloromethane - BS	EPA-8260	114			50	150	09/02/2020	DLC
Bromochloromethane - BSD	EPA-8260	111	2		50	150	09/02/2020	DLC
Chloroform - BS	EPA-8260	110			50	150	09/02/2020	DLC
Chloroform - BSD	EPA-8260	108	1		50	150	09/02/2020	DLC
1,1,1-Trichloroethane - BS	EPA-8260	93.3			50	150	09/02/2020	DLC
1,1,1-Trichloroethane - BSD	EPA-8260	89.3	4		50	150	09/02/2020	DLC
1,1-Dichloropropene - BS	EPA-8260	94.1			50	150	09/02/2020	DLC
1,1-Dichloropropene - BSD	EPA-8260	90.2	4		50	150	09/02/2020	DLC
1,2-Dichloroethane - BS	EPA-8260	104			50	150	09/02/2020	DLC
1,2-Dichloroethane - BSD	EPA-8260	101	3		50	150	09/02/2020	DLC
Trichloroethene - BS	EPA-8260	102			74.4	141	09/02/2020	DLC
Trichloroethene - BSD	EPA-8260	96.2	6		74.4	141	09/02/2020	DLC
1,2-Dichloropropane - BS	EPA-8260	102			50	150	09/02/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT: GHD Services
 20818 - 44th Ave W., Suite 190
 Lynnwood, WA 98036

CLIENT CONTACT: Mike Noll
 CLIENT PROJECT: Cascade Village / 11215715-2020-01

DATE: 9/15/2020
 ALS SDG#: EV20090002
 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	99.2	3		50	150	09/02/2020	DLC
Dibromomethane - BS	EPA-8260	92.3			50	150	09/02/2020	DLC
Dibromomethane - BSD	EPA-8260	92.0	0		50	150	09/02/2020	DLC
Bromodichloromethane - BS	EPA-8260	110			50	150	09/02/2020	DLC
Bromodichloromethane - BSD	EPA-8260	107	3		50	150	09/02/2020	DLC
Trans-1,3-Dichloropropene - BS	EPA-8260	99.5			50	150	09/02/2020	DLC
Trans-1,3-Dichloropropene - BSD	EPA-8260	96.6	3		50	150	09/02/2020	DLC
Toluene - BS	EPA-8260	104			71.7	139	09/02/2020	DLC
Toluene - BSD	EPA-8260	96.2	7		71.7	139	09/02/2020	DLC
Cis-1,3-Dichloropropene - BS	EPA-8260	104			50	150	09/02/2020	DLC
Cis-1,3-Dichloropropene - BSD	EPA-8260	99.5	4		50	150	09/02/2020	DLC
1,1,2-Trichloroethane - BS	EPA-8260	97.0			50	150	09/02/2020	DLC
1,1,2-Trichloroethane - BSD	EPA-8260	94.2	3		50	150	09/02/2020	DLC
1,3-Dichloropropane - BS	EPA-8260	98.9			50	150	09/02/2020	DLC
1,3-Dichloropropane - BSD	EPA-8260	93.6	6		50	150	09/02/2020	DLC
Tetrachloroethylene - BS	EPA-8260	95.5			50	150	09/02/2020	DLC
Tetrachloroethylene - BSD	EPA-8260	89.6	6		50	150	09/02/2020	DLC
Dibromochloromethane - BS	EPA-8260	103			50	150	09/02/2020	DLC
Dibromochloromethane - BSD	EPA-8260	101	2		50	150	09/02/2020	DLC
1,2-Dibromoethane - BS	EPA-8260	101			50	150	09/02/2020	DLC
1,2-Dibromoethane - BSD	EPA-8260	97.4	4		50	150	09/02/2020	DLC
Chlorobenzene - BS	EPA-8260	94.0			73	131	09/02/2020	DLC
Chlorobenzene - BSD	EPA-8260	88.9	6		73	131	09/02/2020	DLC
1,1,1,2-Tetrachloroethane - BS	EPA-8260	94.7			50	150	09/02/2020	DLC
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	89.9	5		50	150	09/02/2020	DLC
Bromoform - BS	EPA-8260	101			50	150	09/02/2020	DLC
Bromoform - BSD	EPA-8260	98.2	3		50	150	09/02/2020	DLC
1,1,2,2-Tetrachloroethane - BS	EPA-8260	87.6			50	150	09/02/2020	DLC
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	87.7	0		50	150	09/02/2020	DLC
1,2,3-Trichloropropane - BS	EPA-8260	88.7			50	150	09/02/2020	DLC
1,2,3-Trichloropropane - BSD	EPA-8260	88.8	0		50	150	09/02/2020	DLC
Bromobenzene - BS	EPA-8260	88.6			50	150	09/02/2020	DLC
Bromobenzene - BSD	EPA-8260	86.4	3		50	150	09/02/2020	DLC
2-Chlorotoluene - BS	EPA-8260	85.0			50	150	09/02/2020	DLC
2-Chlorotoluene - BSD	EPA-8260	82.2	3		50	150	09/02/2020	DLC
4-Chlorotoluene - BS	EPA-8260	85.9			50	150	09/02/2020	DLC
4-Chlorotoluene - BSD	EPA-8260	83.7	3		50	150	09/02/2020	DLC
1,3-Dichlorobenzene - BS	EPA-8260	85.7			50	150	09/02/2020	DLC
1,3-Dichlorobenzene - BSD	EPA-8260	82.1	4		50	150	09/02/2020	DLC
1,4-Dichlorobenzene - BS	EPA-8260	85.2			50	150	09/02/2020	DLC



CERTIFICATE OF ANALYSIS

CLIENT:	GHD Services 20818 - 44th Ave W., Suite 190 Lynnwood, WA 98036	DATE:	9/15/2020
CLIENT CONTACT:	Mike Noll	ALS SDG#:	EV20090002
CLIENT PROJECT:	Cascade Village / 11215715-2020-01	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	83.3	2		50	150	09/02/2020	DLC
1,2-Dichlorobenzene - BS	EPA-8260	88.1			50	150	09/02/2020	DLC
1,2-Dichlorobenzene - BSD	EPA-8260	84.3	4		50	150	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	92.5			50	150	09/02/2020	DLC
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	87.4	6		50	150	09/02/2020	DLC
1,2,4-Trichlorobenzene - BS	EPA-8260	87.8			50	150	09/02/2020	DLC
1,2,4-Trichlorobenzene - BSD	EPA-8260	84.3	4		50	150	09/02/2020	DLC
Hexachlorobutadiene - BS	EPA-8260	84.2			50	150	09/02/2020	DLC
Hexachlorobutadiene - BSD	EPA-8260	80.1	5		50	150	09/02/2020	DLC
1,2,3-Trichlorobenzene - BS	EPA-8260	88.5			50	150	09/02/2020	DLC
1,2,3-Trichlorobenzene - BSD	EPA-8260	86.8	2		50	150	09/02/2020	DLC

LCS01 - The LCS and/or LCSD recovery was below the lower control limit. The sample results may be biased low for this analyte.

APPROVED BY

Laboratory Manager



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)

EV20090002

Date 9/1/20 Page 1 Of 1

PROJECT ID: <u>CASCADE VILLAGE / 11215715-2020-01</u>					ANALYSIS REQUESTED										OTHER (Specify)															
REPORT TO COMPANY: <u>GHD</u>					NWTPH-HCID NWTPH-DX NWTPH-GX BTEX by EPA 8021 <input type="checkbox"/> BTEX by EPA 8260 <input type="checkbox"/> MTBE by EPA 8021 <input type="checkbox"/> MTBE by EPA 8260 <input type="checkbox"/> Halogenated Volatiles by EPA 8260 Volatile Organic Compounds by EPA 8260 EDB / EDC by EPA 8260 SIM (water) EDB / EDC by EPA 8260 (soil) Semivolatile Organic Compounds by EPA 8270 Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM PCB by EPA 8082 <input type="checkbox"/> Pesticides by EPA 8081 <input type="checkbox"/> Metals-MTCA-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> P/Pi <input type="checkbox"/> TAL <input type="checkbox"/> Metals Other (Specify) TCLP-Metals <input type="checkbox"/> VOA <input type="checkbox"/> Semi-Vol <input type="checkbox"/> Pest <input type="checkbox"/> Herbs <input type="checkbox"/>	PROJECT MANAGER: <u>MIKE NOLL</u>					NUMBER OF CONTAINERS RECEIVED IN GOOD CONDITION?																			
ADDRESS:																														
PHONE: <u>(425) 563-6511</u> P.O. #:																														
E-MAIL: <u>MIKE.NOLL@GHD.COM</u>																														
INVOICE TO COMPANY: <u>GHD</u>																														
ATTENTION:																														
ADDRESS:																														
<u>A</u>																														
SAMPLE I.D.	DATE	TIME	TYPE	LAB#																										
1. <u>556-1</u>	<u>9/1/20</u>	<u>1030</u>	<u>GSV</u>	<u>1</u>																										
2. <u>556-2</u>	<u>9/1/20</u>	<u>1048</u>	<u>BSV</u>	<u>2</u>																										
3.																														
4.																														
5.																														
6.																														
7.																														
8.																														
9.																														
10.																														

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] BTS 9/1/20 1245
 Received By: [Signature] ALS 9/1/20 1245
 2. Relinquished By: _____
 Received By: _____

TURNAROUND REQUESTED in Business Days*
 Organic, Metals & Inorganic Analysis
 10 Standard 5 3 2 1 SAME DAY
 Fuels & Hydrocarbon Analysis
 5 Standard 3 1 SAME DAY
 OTHER: _____
 Specify: _____

*Turnaround request less than standard may incur Rush Charges

Appendix F

Site Photos



Photo 1 May 2018. Removing concrete slab at Building C excavation. View NW

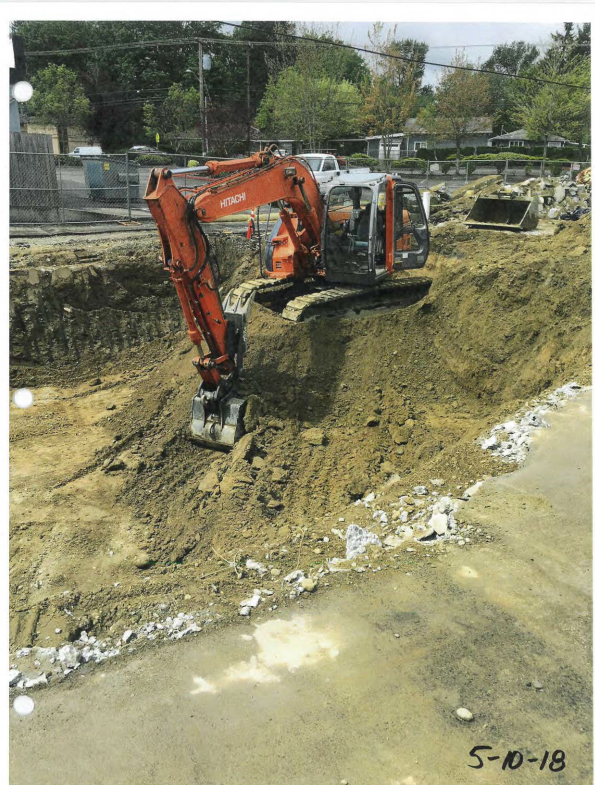


Photo 2 May 10, 2018. Excavating soil at Building C to 9 feet bgs. View NW



Site Photographs

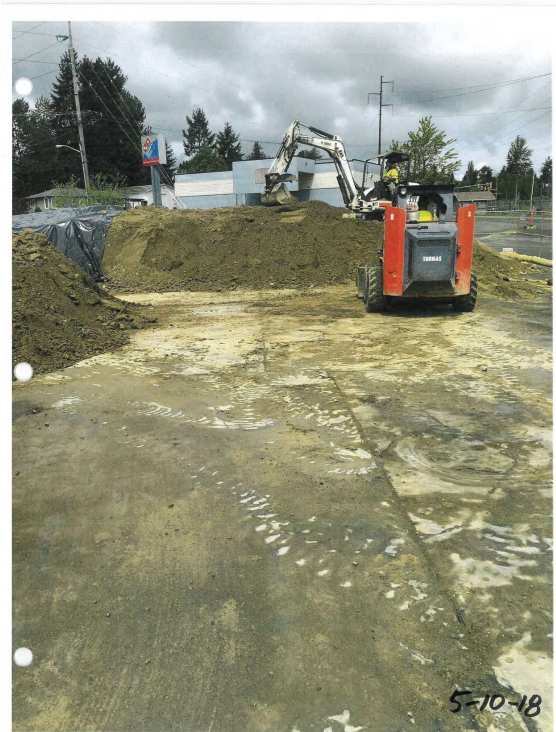


Photo 3 May 10, 2018. Stockpiling excavated soil at north end of pad. View N



Photo 4 May 10, 2018. Stockpile covered with black plastic. View N



Site Photographs



Photo 5 May 10, 2018. Former Building C excavation. View South



Photo 6 May 11, 2018. 4-Inch PVC pipe runs laid in bottom of excavation. View S



Site Photographs



Photo 7 May 11, 2018. Building C excavation with pipes, covered soil pile. View N



Photo 8 May 11, 2018. Klozur treatment applied to bottom of excavation. View SW



Site Photographs



Photo 9 May 11, 2018. PVC treatment pipes bedded in drain rock. View North.



Photo 10 May 11, 2018. PVC pipes & drain rock covered with geotextile. View N



Site Photographs



Photo 11 May 11, 2018. Mixing Klozur into excavated soil lift w/ auger head. View W



Photo 12 May 11, 2018. Mixing Klozur into soil lift at 6 feet bgs. View NW.



Site Photographs



Photo 13 May 12, 2018. Auger mixing Klozur into excavated soil lift at 3 feet. View W



Photo 14 May 12, 2018. Auger mixing NaOH actuator into treated soil. View W



Site Photographs



Photo 15 May 12, 2018. Preparing treatment for final excavated soil lift. View West.



Photo 16 May 25, 2018. View NW of completed soil treatment area from Building B.



Site Photographs



Photo 17 Aug 2018 Alley area soil excavation to approx. 6 feet bgs. View North.



Photo 18 Setting 4-inch PVC treatment pipe in excavation. View North.





Photo 19 - Setting 4-inch PVC treatment pipe in excavation. View North



Photo 20 - Setting 4-inch PVC treatment pipe in excavation. View North



Site Photographs



Photo 21 - Setting 4-inch PVC treatment pipe in excavation. View North



Photo 22 - Setting 4-inch PVC treatment pipe in excavation. View North



Site Photographs



Photo 23 - Setting 4-inch PVC treatment pipe in excavation. View North



Photo 24 - Setting 4-inch PVC treatment pipe in excavation. View North





Photo 25 - Applying Klozur to excavated soil in lifts. View South.



Photo 26 - Applying Klozur to excavated soil in lifts. View South.





Photo 27 - Applying Klozur to excavated soil in lifts. View South.



Photo 28 - Applying Klozur to excavated soil in lifts. View South.



Site Photographs



Photo 29 11.15.2018. Alley. Former Building C (fenced) & MW-3 to right. View N



Photo 30 11.15.2018. Alley. Former Building C (fenced) to left. View South.



Site Photographs



Photo 31 11.15.2018. Installing MW-7A in Alley. View Southeast.



Photo 32 11.23.2019. Trench treatment applications. View East.



Site Photographs



Photo 33 11.23.2019. Trench treatment application. View North.



Photo 34 1.27.2020. Additional trench treatment application. View North.



Site Photographs



Photo 35 - 1.27.2020. Additional trench treatment application. View South.



Photo 36 1.27.2020. Additional trench treatment application. View SE.



Site Photographs



Photo 37 8.12.2020. View N in Alley from near Bldg A. Building B to right, D to left



Photo 38 8.12.2020. View S in Alley from MW-7B. Building B to left, D to right



Site Photographs

Appendix G

**Excerpts from GeoEngineers Focused
Phase II Environmental Site Assessment
Report, November 10, 2021**




 Approximate Subject Property Boundary

 Parcel Boundaries

 Inferred Groundwater Flow Direction

GEI-1  Direct-Push Boring Location

SV-1  Sub-Slab Sample Location



DRAFT Site Plan

Focused Sampling and Analysis
Former QFC Property
Renton, Washington



Figure 2

October 2021

21565-006-04

Source: 2017 aerial photograph, King County iMAP

Table 1
Soil Chemical Analytical Data
Focused Sampling and Analysis September 2021
17060 - 116th Avenue SE, Renton, Washington

Sample ID ¹	GEI-1-7.0	GEI-2-3.0	GEI-2-10.0	GEI-3-4.0	GEI-3-9.0	GEI-3-15.0	GEI-4-8.0	GEI-4-15.0	GEI-5-15.0	GEI-6-15.0	MTCA Method A and B Cleanup Levels
Depth of Sample (feet bgs)	7.0	3.0	10.0	4.0	9	15.0	8.0	15.0	15.0	15.0	
Petroleum Hydrocarbons by NWTPH-Gx or NWTPH-Dx (mg/Kg)											
Gasoline-Range	--	--	--	--	--	5 U	--	--	--	--	100 ³
Diesel-Range	50 U	50 U	--	--	--	50 U	--	--	--	--	2,000
Heavy Oil-Range	250 U	250 U	--	--	--	250 U	--	--	--	--	2,000
Metals by EPA 6020B/7471 (mg/Kg)											
Arsenic	2.02	2.21	--	--	--	1.66	--	--	--	--	20
Barium	35.6	48.6	--	--	--	42.7	--	--	--	--	16,000 ⁴
Cadmium	1 U	1 U	--	--	--	1 U	--	--	--	--	2
Chromium	17.2	14.8	--	--	--	16.5	--	--	--	--	2,000 ²
Lead	1.53	4.85	--	--	--	1.63	--	--	--	--	250
Mercury	1 U	1 U	--	--	--	1 U	--	--	--	--	2
Selenium	1 U	1 U	--	--	--	1 U	--	--	--	--	400 ⁴
Silver	1 U	1 U	--	--	--	1 U	--	--	--	--	400 ⁴
Volatile Organic Compounds (VOCs)³ by EPA 8260D (mg/Kg)											
cis-1,2-Dichloroethene	--	--	0.001 U	0.001 U	0.014	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.016 ⁴
Trichloroethene (TCE)	--	--	0.001 U	0.001 U	0.015	0.0030	0.001 U	0.001 U	0.001 U	0.001 U	0.03
Tetrachloroethene (PCE)	--	--	0.001 U	0.001 U	0.023	0.0076	0.0012	0.0016	0.001 U	0.001 U	0.05

Notes:

¹ Sample locations are shown on Figure 2.

² Model Toxics Control Act (MTCA) Method A cleanup level for Chromium III (Trivalent Chromium).

³ Only detected volatile Organic Compounds (VOCs) shown. Other VOCs were not detected at concentrations greater than the laboratory reporting limits. See attached chemical analytical data report.

⁴ MTCA Method B cleanup level. MTCA Method A cleanup level not established.

bgs = below ground surface

"--" = Not analyzed

EPA = U.S. Environmental Protection Agency

TCLP = Toxic Characteristic Leaching Procedure

mg/Kg = milligrams per Kilogram

TEQ = toxicity equivalency

MTCA = Model Toxics Control Act

Bold indicates analyte was detected at a concentration greater than the laboratory reporting limit.

Table 2
Soil Vapor Chemical Analytical Data¹
Focused Sampling and Analysis September 2021
17060 - 116th Avenue SE, Renton, Washington

Sample Identification ²	SV-1	SV-2	SV-3	MTCA Method B Soil Vapor Screening Level ³ (µg/m ³)
Dry-Cleaning Related Solvents (µg/m³)				
Vinyl chloride (VC)	1.6 U	1.5 U	1.4 U	9.5
Trichloroethene (TCE)	0.67 U	0.64 U	0.6 U	11
Tetrachloroethene (PCE)	63	72	38 U	320
1,1-Dichloroethene	2.5 U	2.4 U	2.2 U	3,000
trans-1,2-Dichloroethene	2.5 U	2.4 U	2.2 U	610
cis-1,2-Dichloroethene	2.5 U	2.4 U	2.2 U	NA

Notes:

¹Chemical analyses performed by Friedman & Bruya, Inc., Seattle, Washington. Soil vapor samples analyzed by U.S. Environmental Protection Agency (EPA) Method TO-15.

² All samples collected on September 28, 2021. The approximate sample locations are shown in Figure 2.

³Screening levels are the lowest MTCA Method B soil vapor screening level included in Ecology's Cleanup Levels and Risk Calculation (CLARC) tables dated February 2021.

µg/m³ = micrograms per cubic meter

MTCA = Model Toxics Control Act

NA = Not applicable

U = Analyte not detected at or greater than the indicated laboratory reporting limit

Bolded value indicates analyte detected

