

# REMEDIAL INVESTIGATION AND FOCUSED FEASIBILITY STUDY REPORT

## **Building C at Woodinville West Business Park**

16750 Woodinville-Redmond Road NE, Woodinville, Washington

Facility/Site #36189742

Cleanup Site #16672

SLR Project 101.20841.00001

March 2023



# Remedial Investigation and Focused Feasibility Study Report

## Building C at Woodinville West Business Park Woodinville, Washington

Prepared for:

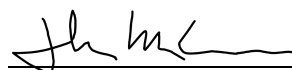
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## ACRONYMS

µg/L	micrograms per liter
µg/m <sup>3</sup>	micrograms per cubic meter
AKART	all known and reasonable technologies
Apex	Apex Laboratories, Inc.
ARAR	applicable, relevant, and appropriate requirement
AS	air sparging
bgs	below ground surface
°C	degrees Celsius
Cascade	Cascade Drilling
CDF	controlled-density fill
cfm	cubic feet per minute
cis-1,2-DCE	cis-1,2-dichloroethene
COC	contaminant of concern
CODA	CODA Consulting Group
Coit	Coit Services
CSM	conceptual site model
DCA	disproportionate cost analysis
DCE	dichloroethene
DO	dissolved oxygen
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
ESA	environmental site assessment
FFS	focused feasibility study
ft/ft	feet per foot
GAC	granular activated carbon
gpm	gallons per minute
HVOC	halogenated volatile organic compound
KCIW	King County Industrial Waste
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MDL	method detection limit
MNA	monitored natural attenuation
MRL	method reporting limit
MTCA	Model Toxics Control Act
mV	millivolt
O&M	operation and maintenance
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PID	photoionization detector
ppm	parts per million
PSCAA	Puget Sound Clean Air Agency

## ACRONYMS (CONTINUED)

PVC	polyvinyl chloride
RAO	remedial action objective
RDC	reductive dechlorination
RI	remedial investigation
ROI	radius of influence
Seattle Pump	Seattle Pump and Equipment Co.
SLR	SLR International Corporation
STEE	simplified terrestrial ecological evaluation
SVE	soil vapor extraction
USCS	Unified Soil Classification System
VC	vinyl chloride
VI	vapor intrusion
VOC	volatile organic compound
WAC	Washington Administrative Code

# 1. INTRODUCTION

On behalf of Woodinville CD, LLC, the former owner of the Building C property (the Subject Property) of the Woodinville West Business Park, SLR International Corporation (SLR) has prepared this report to present the results of the remedial investigation (RI) activities that were conducted at the Subject Property and surrounding area from April 2022 through January 2023. The Subject Property is located at 16750 Woodinville-Redmond Road NE in Woodinville, Washington (see Figure 1). This report also presents: 1) a conceptual site model that describes the transport mechanisms and pathways by which human and ecological receptors may be exposed to the contaminants in the soil and groundwater at the Building C Site (the Site; also designated by the Washington Department of Ecology [Ecology] as the Woodinville West Business Park Site), and 2) a focused feasibility study (FFS) that identifies and evaluates soil and groundwater remediation alternatives for the Site.

The objectives of the RI and the FFS included the following:

- Delineate the lateral extents of the known tetrachloroethene (PCE)-impacted soil beneath Building C in the vicinity of the former dry cleaning machine;
- Assess if the former Wincraft print washing operation in Suite C-101 of Building C was an additional source of halogenated volatile organic compound (HVOC)-impacted soil and/or groundwater;
- Assess if groundwater samples from properly developed monitoring wells at the Subject Property area would contain HVOC concentrations greater than the Model Toxics Control Act (MTCA) Method A or Method B cleanup levels;
- Delineate the lateral extents of the HVOC-impacted groundwater (if groundwater samples from properly developed monitoring wells contained HVOC concentrations greater than the Method A or Method B cleanup levels);
- Monitor any seasonal effects on the groundwater flow direction and HVOC concentrations in the groundwater;
- Assess any seasonal effects on the indoor air quality within smaller spaces in Building C to further assess the soil vapor pathway into the building;
- Evaluate the potential risks associated with the Site contamination; and
- Develop and evaluate remedial alternatives in accordance with MTCA and select a recommended alternative.

## 1.1 DESCRIPTION OF SUBJECT PROPERTY

The Subject Property is located at the northern portion of the Woodinville West Business Park, at 16750 Woodinville-Redmond Road Northeast (see Figure 1). The business park consists of an approximately 9.76-acre property (King County parcel number 0926059084), which is located within an industrial area at the southwestern part of Woodinville. Based on a review of online

King County Assessor records, a timeline of the Subject Property owners, including the dates that the property was acquired, is provided below:

- December 2021 – Terreno Woodinville II LLC & Terreno Realty Corporation
- July 2020 – Woodinville CD, LLC
- June 2015 – Woodinville West LLC
- January 2006 – Everything Else LLC
- March 1995 – Wilcoxon Family Limited Partners
- December 1994 – Robert and Marjorie Wilcoxon
- December 1994 – Intrawest Properties Partnership

The Subject Property is developed with a 19,000 square foot (SF) warehouse (designated as Building C). The building was constructed in 1999. Building C contains three suites (C-101, C-102, and C-103) that are currently occupied by the following tenants:

- Suite C-101 – Seattle Pump and Equipment Co. (Seattle Pump) provides water pump, high pressure industrial cleaning equipment, sprayers, “jetters” and pipe cleaning equipment sales, rentals, and repair. Prior to Seattle Pump, Wincraft, a former tenant, conducted screen and sign printing operations in Suite C-101. Wincraft reportedly used trichloroethene (TCE) in its operations, and during a Phase I Environmental Site Assessment (ESA) in 2008, waste from the print washing operations was observed discharging directly to a floor drain in the print washing area. The floor drain is reportedly connected to the Subject Property’s sanitary sewer system (Adapt Engineering, Inc., 2008).
- Suite C-102 – Intertek PSI is a construction project services and concrete testing company. Before relocating to Suite C-103, Coit Services (Coit) occupied C-102. Coit cleans residential and commercial air ducts, area rugs, carpets, upholstery, and other products, and also provides fire, smoke, and water damage restoration services. Coit formerly operated a dry cleaning machine along the east wall of Suite C-102 that used PCE between approximately 1999 and 2007.
- Suite C-103 is occupied by Coit.

The Subject Property is bounded to the north by a large office/warehouse building occupied by a utility locating service, a biotechnology research company, a specialty metal and titanium supplier to the aerospace industry, and an engineering firm; to the west by a former railroad right-of-way (ROW) currently owned by King County Parks, beyond which is the Woodinville-Redmond Road ROW and a manufacturer of commercial marine deck hatches; to the east by the Sammamish River, beyond which is the Sammamish River Trail and Woodin Creek Park; and to the south by Building D of the Woodinville West Business Park, which is a large warehouse occupied by a manufacturer of a powdered drink mix and an electrical contractor business.

## 1.2 PREVIOUS SUBSURFACE ASSESSMENT RESULTS

In November 2019 and December 2021, Phase II Environmental Site Assessments (ESAs) were conducted by AECOM and CODA Consulting Group (CODA), respectively, at the Subject Property as part of environmental and transactional due diligence activities. The AECOM assessment consisted of drilling and sampling five soil borings (GP-1 through GP-5) and installing and sampling a temporary well in each boring, and the CODA assessment consisted of drilling and sampling 12 soil borings (B-1 through B-12) and installing and sampling temporary wells in 10 of the borings (B-1 through B-9 and B-11). The approximate locations of the 2019 and 2021 soil borings are shown on Figure 2.

The results of the assessments showed that shallow soil samples collected at depths of up to 7 feet below ground surface (bgs) from 3 of the borings (B-11, GP-4, and GP-5) contained PCE concentrations (0.092 to 0.14 milligrams per kilogram [mg/kg]) that exceeded the MTCA Method A cleanup level (0.05 mg/kg). Soil samples collected at depths between 10 and 15 feet bgs from borings B-7, B-11, B-12, GP-4, and GP-5 contained cis-1,2-dichloroethene (cis-1,2-DCE) concentrations (0.13 to 0.33 mg/kg) that exceeded the Method B cleanup level based on protection of groundwater in the saturated zone (0.0052 mg/kg). The deep soil sample from B-11, collected from 10 to 15 feet bgs, also contained a vinyl chloride (VC) concentration (0.007 mg/kg) that exceeded the Method B cleanup level based on protection of the groundwater in the saturated zone (0.00009 mg/kg). Shallower samples from B-12 and GP-5, collected at depths of less than 7 feet bgs, contained cis-1,2-DCE concentrations (0.27 and 0.13 mg/kg, respectively) that exceeded the Method B cleanup level based on protection of groundwater in the vadose zone (0.079 mg/kg). B-11, B-12, GP-4, and GP-5 were located near the former dry cleaning machine in Suite C-102, and B-7 was located near an underground oil/water separator to the northwest of Building C (see Figure 2). The groundwater samples collected from the temporary wells installed in borings located near the former dry cleaning machine (B-11 and GP-4), near the oil/water separator (B-7 and GP-3), and to the northeast of Building C in an estimated downgradient (northeastern) direction (B-4) contained VC concentrations (0.35 to 5.45 micrograms per liter [ $\mu\text{g/L}$ ]) that exceeded the Method A cleanup level (0.20  $\mu\text{g/L}$ ; AECOM, 2019 and CODA, 2021); however, the results may have been biased high since the samples were collected from undeveloped temporary wells.

In December 2021, CODA also installed sub-slab soil vapor points in borings B-10 and B-12, collected soil vapor samples from the points, and collected six indoor air samples (A-01 through A-04, A-06, and A-07) within Building C, as well as two exterior ambient air samples (A-05 and A-08), to assess the potential soil vapor intrusion risks at the Site. The 2021 soil vapor and indoor air sample locations are shown on Figure 3. The sub-slab soil vapor sample collected from B-12, located near the former dry cleaning machine, contained PCE, TCE, and VC concentrations (615, 70.2, and 81.3 micrograms per cubic meter [ $\mu\text{g/m}^3$ ], respectively) that exceeded the MTCA Method B sub-slab soil gas screening levels (320, 11, and 9.5  $\mu\text{g/m}^3$ , respectively). However, the indoor air samples collected in Building C did not contain PCE, TCE, VC, or any other HVOCs at concentrations above either the MTCA Method B indoor air cleanup levels or the laboratory's method reporting limits (MRLs; CODA, 2021).

## 2. REMEDIAL INVESTIGATION ACTIVITIES

To meet the objectives presented in Section 1, SLR conducted RI activities at the Subject Property from April 2022 through January 2023. A description of the field activities and the results of the work are presented below.

### 2.1 DRILL AND SAMPLE SOIL BORINGS AND INSTALL MONITORING WELLS

To meet the RI objectives, the drilling and well installation work was completed in two phases. The first phase of this work was conducted in April 2022 and the second phase was performed in January 2023.

#### 2.1.1 APRIL 2022 DRILLING AND WELL INSTALLATION ACTIVITIES

In April 2022, drilling and well installation activities were conducted to:

- Delineate the lateral extents of the PCE-impacted soil beneath Building C in the vicinity of the former dry cleaning machine,
- Assess if the former Wincraft print washing operation in Suite C-101 was an additional source of HVOC-impacted soil and/or groundwater,
- Assess if groundwater samples from properly developed groundwater monitoring wells would contain VC concentrations greater than the MTCA Method A or Method B cleanup levels.

To address these objectives, Cascade Drilling (Cascade) of Woodinville, Washington, drilled and sampled a total of eight soil borings (designated as MW-1, MW-2, MW-3, and SB-1 through SB-5) at the Subject Property, and completed three of the borings as properly constructed and developed groundwater monitoring wells (MW-1, MW-2, and MW-3). The work was conducted under the direction of an SLR geologist. To delineate the lateral extents of the PCE-impacted soil, soil borings SB-1 through SB-4 were located to the north, south, east, and west of the former dry cleaning machine. To assess if the former Wincraft print washing operation was an additional source of HVOC-impacted soil and/or groundwater, soil borings SB-5 and MW-3 were located near the floor drain at the former print washing area and along the side sewer downstream from the floor drain, respectively. To further assess the groundwater conditions, well MW-1 was located in the vicinity of the former dry cleaning machine, well MW-2 was located near the oil/water separator, and well MW-3 was located along the northeastern side of Building C (in the vicinity of previous boring B-4, as well as near the side sewer described above). The locations of the borings and wells are shown on Figure 2.

Prior to conducting the drilling activities, private and public utility locates were conducted to identify and mark any underground utilities near the drilling locations. The private utility locating included tracing the non-conductible drain lines near the drilling locations that were accessible through nearby floor drains, clean-outs, or accessible drainpipes. To reduce the likelihood of any

damaged utilities, Cascade conducted pre-drilling utility clearance of each drilling location by using a hand auger to a depth of approximately 5 feet bgs.

Cascade drilled and sampled the soil borings for MW-1, MW-2, MW-3, and SB-1 through SB-4, by using a hydraulic push-probe rig. Boring SB-5 was located in a small room only accessible via a man door, and it could only be advanced and sampled by using a hand auger. All of the drilling activities were conducted under the direction of an SLR geologist.

Borings MW-1, MW-2, and MW-3 were each drilled to a depth of approximately 23 feet bgs (7 feet below the lowest depth to groundwater during the previous assessments). Borings SB-1, SB-2, SB-3, and SB-4 were each drilled to a depth of approximately 20 feet bgs. Boring SB-5 was advanced to a depth of approximately 5 feet bgs. During the drilling of each of the borings, soil samples were collected on a continuous basis to a depth of approximately 5 feet bgs by using a decontaminated bucket-auger sampler on the hand auger. At MW-1, MW-2, MW-3, and SB-1 through SB-4, soil samples were then collected on a continuous basis from 5 feet bgs to the bottom of the boring by using disposable acetate liners within the drill rods. SLR personnel screened each of the soil samples for the potential presence of HVOCs by using visual appearance, odors, and photoionization detector (PID) readings.

The soil sample from each boring that exhibited the strongest field evidence of contamination was submitted to Apex Laboratories (Apex) in Tigard, Oregon, for analysis. If there was no field evidence of contamination, then the soil sample collected immediately above the groundwater table was submitted for analysis. Additionally, the soil sample collected from the bottom of each boring was submitted for potential analysis to delineate the vertical extent of any impacted soil in the boring. The selected soil samples were analyzed for full-list volatile organic compounds (VOCs) by EPA Method 8260D (including VC by EPA Method 8260D SIM). The soil lithology, field screening results, and moisture content in each boring, and the construction details of the monitoring wells, are included on the soil boring logs presented in Appendix A.

After drilling and sampling the soil borings for MW-1, MW-2, and MW-3, Cascade over-drilled these borings by using hollow-stem auger methods and completed the borings as groundwater monitoring wells. Cascade constructed each of the groundwater monitoring wells with 2-inch-diameter Schedule 40 PVC casing and a 20-foot-long screen (0.010-inch-wide slots) that was installed from approximately 3 to 23 feet bgs. The 20-foot-long screen allowed for the significant seasonal groundwater elevation fluctuations due to the proximity of the Sammamish River, which is located less than 50 feet to the east of the Subject Property. A filter pack consisting of 10x20 Colorado® silica sand was extended from at least 6 inches below the bottom screen slot to at least six inches above the uppermost screen slot. A hydrated bentonite chip seal was installed above the filter pack to approximately 1-foot bgs, and a traffic-rated steel monument was installed (in concrete) flush with the ground surface to protect each well. After installation, Cascade developed each of the wells by using surging and pumping methods to ensure hydraulic continuity between the well screen and formation materials. Signature Surveying of Shoreline, Washington, surveyed the ground surface and top of casing elevations of the wells relative to the NAVD 88 datum.

### 2.1.2 JANUARY 2023 DRILLING AND WELL INSTALLATION ACTIVITIES

In January 2023, a second phase of the drilling and well installation work was conducted to try and delineate the lateral extents of the VC-impacted groundwater. To meet this objective, Cascade drilled and sampled six soil borings and completed each boring as a properly constructed and developed groundwater monitoring well (designated as MW-4 through MW-9). The work was conducted under the direction of an SLR geologist. The locations of the wells were selected based on the groundwater sample analytical results from wells MW-1, MW-2, and MW-3 during the April, July, and October 2022 quarterly groundwater monitoring activities described below. Wells MW-4, MW-5, and MW-6 were located to the northeast, southeast, and west-southwest, respectively, of MW-1, and wells MW-7, MW-8, and MW-9 were located to the west, north, and northeast, respectively, of MW-2. MW-6 was also located to the south-southeast of MW-2 and MW-9 was also located to the north-northwest of MW-1. The locations of the wells MW-4 through MW-9 are shown on Figure 2.

The drilling and soil sampling procedures and the well construction details of monitoring wells MW-4 through MW-9 were consistent with those described above for wells MW-1 through MW-3. However, since these wells were not located near a potential source area or within an area of impacted soil, and there was no field evidence of HVOCs in any of the soil samples from the borings, none of the soil samples from borings MW-4 through MW-9 were submitted for laboratory analysis. After installation, Cascade developed each of the wells by using surging and pumping methods to ensure hydraulic continuity between the well screen and formation materials of the wells. Signature Surveying surveyed the ground surface and top of casing elevations of the wells relative to the NAVD 88 datum.

The soil waste generated by both phases of the drilling activities and the wastewater generated from the decontamination of the drilling and sampling equipment, as well as the development of the monitoring wells, were transported off-site and disposed as non-hazardous waste at the Chemical Waste Management of the Northwest facility in Arlington, Oregon.

### 2.1.3 SOIL SAMPLE ANALYTICAL RESULTS

The soil sample analytical results showed that the samples collected from borings SB-4, at approximately 4 feet bgs, contained a cis-1,2-DCE concentration (0.26 mg/kg) that exceeded the MTCA Method B cleanup based on protection of groundwater in the vadose zone. The soil sample collected from boring MW-1, at a depth of approximately 13 feet bgs, contained a cis-1,2-DCE concentration (0.11 mg/kg) that exceeded the MTCA Method B cleanup level based on protection of groundwater in the saturated zone. SB-4 and MW-1 were located approximately 25 feet to the northeast and 9 feet to the northwest, respectively, of the former dry cleaning machine (see Figure 2). As described below in Section 2.4, the groundwater monitoring data collected in 2012 and 2013 indicated that the vadose zone extends to a depth of approximately 8.70 feet bgs beneath the Subject Property area.

None of the other soil samples contained analyte concentrations greater than either the MRLs or the MTCA Method A or B cleanup levels. The soil sample analytical results from this investigation,

as well as from the previous assessments (for VOCs only), are presented in Table 1. The soil sample analytical results from this investigation and the previous assessments (for PCE and cis-1,2-DCE only) are presented on Figure 4. Copies of the laboratory reports from this investigation are included in Appendix B.

## 2.2 CONDUCT QUARTERLY GROUNDWATER MONITORING EVENTS

On April 12, July 12, and October 12, 2022, and on January 9 and 10, 2023, SLR conducted quarterly groundwater monitoring events to monitor seasonal fluctuations in the groundwater conditions during periods of higher and lower groundwater elevations. During the April, July, and October 2022 monitoring events, SLR personnel collected groundwater samples from each of the monitoring wells (MW-1, MW-2, and MW-3) at the Subject Property. The January 2023 monitoring event included MW-1, MW-2, and MW-3, as well as the six newly installed wells (MW-4 through MW-9). Prior to sampling, SLR personnel measured the depth to groundwater in each of the wells by using an electronic water level meter. SLR used a peristaltic pump with dedicated tubing in each well to purge and sample the wells by using low flow (approximately 0.33 liters per minute) pumping methods. The intake of the tubing was placed at approximately 2 feet below the groundwater level in each well. During the purging of each well, SLR measured the pH, conductivity, temperature, oxidation-reduction potential (ORP), and dissolved oxygen (DO) of the extracted water approximately every three minutes. The groundwater samples were collected from each well following stabilization of the field parameter measurements. The final groundwater sampling field parameter measurements from each well during the monitoring events are presented in Table 2. Copies of the groundwater sampling field data sheets from each of the monitoring events are presented in Appendix C.

The groundwater samples from each of the monitoring events were submitted to Apex for analysis. The samples were analyzed for full-list VOCs by EPA Method 8260D (including VC by EPA Method 8260D SIM).

### 2.2.1 GROUNDWATER MONITORING RESULTS

On April 12, 2022, the depths to groundwater in the monitoring wells (MW-1 through MW-3) ranged from 9.61 to 14.07 feet below the top of each well casing. Based on the results of the April 2022 well elevation survey described above, the groundwater elevations in the wells ranged from 21.41 to 22.48 feet above the NAVD88 datum. Based on the groundwater elevations on April 12, 2022, the general groundwater flow direction beneath the Subject Property area was to the northeast with a horizontal hydraulic gradient of approximately 0.009 feet per foot (ft/ft). A groundwater elevation contour map of the data collected on April 12, 2022, is presented on Figure 5.

On July 12, 2022, the depths to groundwater in the monitoring wells (MW-1 through MW-3) ranged from 10.84 to 15.28 feet below the top of each well casing. The groundwater elevations in the wells ranged from 20.27 to 21.25 feet above the NAVD88 datum. Based on the groundwater elevations on July 12, 2022, the general groundwater flow direction beneath the

Subject Property area was to the northeast with a horizontal hydraulic gradient of approximately 0.009 ft/ft. A groundwater elevation contour map of the data collected on July 12, 2022, is presented on Figure 6.

On October 12, 2022, the depths to groundwater in the monitoring wells (MW-1 through MW-3) ranged from 12.12 to 16.54 feet below the top of each well casing. The groundwater elevations in the wells ranged from 19.34 to 19.97 feet above the NAVD88 datum. Based on the groundwater elevations on October 12, 2022, the general groundwater flow direction beneath the Subject Property area was to the northeast with a horizontal hydraulic gradient of approximately 0.005 ft/ft. A groundwater elevation contour map of the data collected on October 12, 2022, is presented on Figure 7.

On January 9, 2023, the depths to groundwater in each of the monitoring wells (MW-1 through MW-9) ranged from 8.70 to 13.67 feet below the top of each well casing. Based on the results of the previous well elevation surveys described above, the groundwater elevations in the wells ranged from 21.85 to 23.01 feet above the NAVD88 datum. Based on the groundwater elevations on January 9, 2023, the general groundwater flow direction beneath the Subject Property area was to the east-northeast with a horizontal hydraulic gradient of approximately 0.007 ft/ft. A groundwater elevation contour map of the data collected on January 9, 2023, is presented on Figure 8.

The depth to groundwater measurements and the groundwater elevations in the monitoring wells during the April 2022, July 2022, October 2022, and January 2023 groundwater monitoring events are presented in Table 3.

## 2.2.2 GROUNDWATER SAMPLE ANALYTICAL RESULTS

The groundwater sample analytical results from the April 2022 sampling event showed that the sample collected from monitoring well MW-1 contained a VC concentration (0.27 µg/L) that exceeded the MTCA Method A cleanup level (0.2 µg/L). The groundwater samples from MW-2 and MW-3 did not contain any VOC analyte concentrations above either the MRLs or the MTCA Method A or B cleanup levels.

The groundwater sample analytical results from the July 2022 sampling event showed that the sample collected from monitoring well MW-2 contained a VC concentration (0.21 µg/L) that exceeded the MTCA Method A cleanup level. The groundwater samples from MW-1 and MW-3 did not contain any VOC analyte concentrations above either the MRLs or the MTCA Method A or B cleanup levels.

The groundwater sample analytical results from the October 2022 sampling event showed that the sample collected from monitoring well MW-2 contained a VC concentration (0.93 µg/L) that exceeded the MTCA Method A cleanup level. The groundwater samples from MW-1 and MW-3 did not contain any VOC analyte concentrations above either the MRLs or the MTCA Method A or B cleanup levels.

The groundwater sample analytical results from the January 2023 sampling event showed that the samples collected from monitoring well MW-1, as well as from newly installed wells MW-4, MW-8, and MW-9, contained VC concentrations (0.38, 9.83, 1.01, and 1.61 µg/L, respectively) that exceeded the MTCA Method A cleanup level. The groundwater samples from the other wells did not contain any VOC analyte concentrations above either the MRLs or the MTCA Method A or B cleanup levels.

The groundwater sample analytical results from this investigation, as well as from the previous assessments (for VOCs only), are presented in Table 4. The maximum VC concentration in the groundwater samples from each monitoring well during this investigation is presented on Figure 9. Copies of the laboratory reports from this investigation are included in Appendix B.

#### **2.2.2.1 GROUNDWATER SAMPLE ANALYTICAL RESULTS TO EVALUATE ENHANCED REDUCTIVE DECHLORINATION AS POTENTIAL REMEDIATION TECHNOLOGY**

To assist with the evaluation of enhanced reductive dechlorination (RDC) as a potential groundwater remediation technology for the VC plume, the January 2023 groundwater samples from four wells (MW-1, MW-2, MW-4, and MW-9) that contained VC concentrations above the MTCA Method A cleanup level were submitted to Apex for analysis of nitrate and sulfate by EPA Method 300.0, and methane, ethane, and ethene by Method RSK 175. The samples from MW-1 and MW-2 were also submitted to SiREM in Knoxville, Tennessee, for enumeration of VC reductase genes (*vcrA* and *bvcA*) and TCE reductase genes (*tceA*) by the Gene Trac VCRA Method. During the purging of wells MW-1, MW-2, MW-4, and MW-9, SLR personnel also measured the ferrous iron content of the extracted water with a Hach field testing kit. Copies of the laboratory reports for the groundwater samples that were analyzed for the parameters to evaluate RDC are presented in Appendix B, and the ferrous iron concentrations, where measured, are presented on the groundwater sampling field data sheets in Appendix C.

Background data are not available for comparison, but field measurements and geochemical data indicate that the groundwater in the vicinity of MW-1, MW-2, MW-4, and MW-9 (within the vinyl chloride plumes) is largely conducive to RDC. The concentrations of electron acceptors are generally low enough to be considered favorable for anaerobic RDC; specifically, DO is <1 milligrams per liter (mg/L), nitrate is <1 mg/L and sulfate is <20 mg/L. Similarly, ferrous iron, which is produced when ferric iron is used as an electron acceptor, was detected at levels greater than 3 mg/L (the upper limit of quantitation) in all four analyzed samples.

The most notable exception in the geochemical data is ORP. Field measurements of ORP ranged from +16 to +38 millivolts (mV), which is not in the reducing range. Negative values of approximately -100 mV are typically required for complete RDC to ethene. However, counter to what is suggested by the ORP results, methane was detected in the samples at concentrations ranging from 0.2 to 2.1 mg/L and elevated levels of methane are strongly indicative of reducing conditions. At higher concentrations, the presence of methane could indicate the presence of a robust population of methanogens who may compete with *Dehalococcoides* for hydrogen and

inhibit RDC. However, this is less of a concern at the methane concentrations present beneath the Subject Property area (less than approximately 2 mg/L).

Although geochemical conditions appear favorable for RDC of VC, genes encoding for the enzymes needed to dechlorinate VC to ethene (*vcrA* and *bvcA*) were not detected in the groundwater samples from MW-1 or MW-2, which could explain why VC is still present and why ethene was not detected in the groundwater samples. The gene for TCE reductase (*tceA*) was also not detected. The lack of detectable VC and TCE reductase genes indicates a lack of microbial capacity for multiple dechlorination steps. Bioaugmentation with a *Dehalococcoides* enrichment culture and adding an electron donor (i.e., emulsified vegetable oil, lactate, etc.) could stimulate RDC of the remaining VC within the plume areas.

Overall, the geochemical conditions within the HVOC-impacted areas are sufficient to support RDC; however, the microbial community does not appear to be present.

### 2.3 CONDUCT INDOOR AIR SAMPLING EVENT

To assess any seasonal effects on indoor air concentrations and to further evaluate the potential vapor intrusion risks within the Subject Property building, SLR collected two indoor air samples (designated IA-1 and IA-2) from office spaces within Suites C-101 and C-102. The indoor air samples were collected on July 12, 2022, when atmospheric conditions and interior building pressures were likely different than during the December 2021 indoor air sampling event conducted by CODA.

SLR collected each sample by using a six-liter Summa canister (certified as decontaminated by the lab) equipped with an 8-hour flow regulator. The Summa canisters were placed at locations that were closest to the areas of HVOC-impacted soil and/or groundwater, and where floor drains, sewer pipes, etc. penetrate the floor slab and potentially create a soil vapor conduit to indoor air. The flow regulator intake was set at a height of a typical breathing zone (approximately 4.5 feet above the floor). Concurrent with the indoor air sampling, one Summa canister (designated AA-1) was deployed outside the Subject Property building in an upwind direction to sample the ambient air and assess any background concentrations of HVOCs. The July 2022 indoor and ambient air sample locations are shown on Figure 3.

After placing the Summa canisters, the sample valves and dedicated flow regulators were opened to allow each Summa canister to collect an air sample over an 8-hour period. The valve on each canister was closed before the vacuum within the canister reached zero. The filled Summa canisters were submitted to Friedman & Bruya, Inc. (F&B) in Seattle, Washington, for analysis of HVOCs by EPA Method TO-15.

The indoor air sample analytical results from this investigation, as well as from the December 2021 sampling event, showed that none of the samples contained any analytes at concentrations above either the MRLs or the MTCA Method B indoor air cleanup levels. The indoor air sample analytical results from this investigation, as well as from the 2021 assessment, are presented in Table 5. A copy of the laboratory report from this investigation is included in Appendix B.

## 2.4 SITE GEOLOGY AND HYDROGEOLOGY

Based on the results of this investigation and the previous assessments, the shallow geology beneath the Subject Property area consists of approximately 2 to 7 feet of fill (primarily sand and gravel) that is underlain by fluvial deposits that consist of interbedded sands, sands with varying amounts of silt, and silts to depths of at least 23 feet bgs (the maximum depth explored). The bottom unit in each SLR boring that extended to a depth below 5 feet bgs was a fine-grained or fine- to medium-grained sand that was at least 4 to 13.5 feet thick.

Based on the groundwater monitoring conducted during 2022 and 2023, the groundwater table is present at depths from approximately 8.7 to 16.5 feet bgs. From April 2022 through January 2023, the groundwater table seasonally fluctuated up to 2.51 to 2.94 feet in wells MW-1, MW-2, and MW-3. The seasonal groundwater elevation fluctuations are likely due to hydrologic influence of the Sammamish River. In January 2023, after the six additional groundwater monitoring wells were installed to more effectively monitor the groundwater conditions at the Subject Property area, the general flow direction of the shallow groundwater was to the east-northeast, towards the river.

### 3. CONCEPTUAL SITE MODEL

A conceptual site model (CSM) describes potential chemical sources and release mechanisms, environmental fate and transport processes, receptors, exposure routes, and exposure pathways (WAC 173-340-200). The primary purpose of the CSM is to describe pathways by which human and ecological receptors may be exposed to site-related chemicals in the environment. According to the EPA (1989), a complete exposure pathway consists of four necessary elements: (1) a source and mechanism of chemical release to the environment, (2) an environmental transport medium for a released chemical, (3) a point of potential contact with the impacted medium (referred to as the exposure point), and (4) an exposure route (e.g., indoor air inhalation) at the exposure point. An exposure pathway is one element of an exposure scenario, and an exposure scenario may include multiple exposure pathways.

#### 3.1 SOURCE CHARACTERIZATION

The results of this investigation, as well as the previous assessments at the Site, have shown that the soil and groundwater beneath the Subject Property contain HVOC concentrations greater than the MTCA Method A or Method B cleanup levels. Based on the two areas of HVOC-impacted soil (see Figure 3) and groundwater (see Figure 9), the sources of the contamination appear to be releases of PCE at the former dry cleaning machine area at the eastern portion of Suite C-102, and releases of PCE or a daughter product (cis-1,2-DCE) from the underground oil/water separator or an associated storm drain catch basin or line that are located to the northwest of Building C.

Coit formerly operated the dry cleaning machine that used PCE between approximately 1999 and 2007. Since Coit discontinued the use of dry cleaning solvents that contained PCE in 2007, the source of the HVOC-impacted soil and groundwater at the former dry cleaning machine area is no longer present at the Subject Property. Coit's previous use of PCE at the Subject Property may have been the source of the HVOC-impacted soil and groundwater at the oil/water separator area; however, SLR needs to better understand the floor drain system at the property and the drainage pathways to the separator. It is SLR's understanding that there is no current use of products containing chlorinated solvents at the Subject Property; therefore, the source of the contamination at the oil/water separator is also no longer present.

The soil sample analytical results from this investigation and the previous assessments showed that PCE, cis-1,2-DCE, and VC were present in at least one soil sample at concentrations greater than the MTCA Method A or Method B cleanup levels. The groundwater sample analytical results showed that at least one groundwater sample contained VC concentrations greater than the Method A cleanup level. Based on the previous sample analytical results, the soil contaminants of concern (COCs) at the Site are PCE and daughter products cis-1,2-DCE and VC. The only groundwater COC at the Site is VC.

### 3.2 EVALUATION OF POTENTIAL TERRESTRIAL AND AQUATIC ECOLOGICAL RECEPTORS

In accordance with MTCA, SLR conducted a simplified terrestrial ecological evaluation (STEE) to evaluate if terrestrial ecological receptors could possibly be exposed to the COCs at the Site. The Site failed the STEE because there are more than 8 acres of undeveloped land within a 500-foot radius around the Site. However, there are no MTCA soil cleanup levels for the soil COCs (PCE, cis-1,2-DCE, and VC) that are based on protection of terrestrial organisms. Therefore, the terrestrial ecological evaluation was ended.

As described above, the nearest surface water body to the Site is the Sammamish River, which is located less than 50 feet to the east of the Subject Property. Based on the VC concentrations below the MTCA Method A cleanup level in the groundwater samples from downgradient well MW-3, the eastern-northeastern extent of the southern VC plume has been delineated and does not extend to the east of the building. SLR estimates that the southern VC plume extends approximately 70 feet from the source area (the former dry cleaning machine area; see Figure 9). The eastern and northeastern extents of the northern VC plume have not been delineated with properly developed groundwater monitoring wells; however, the groundwater samples collected in 2021 from the temporary wells in boring B-5 and B-6, located to the northeast of the plume (see Figure 4), did not contain detectable VC concentrations. Therefore, it appears that the VC concentrations in the northern plume have naturally attenuated to below detectable levels within 110 feet of the source area (the oil/water separator area). Since the estimated downgradient extents of both VC plumes appear to have been delineated and are not extending to the Sammamish River (see Figure 9), it is unlikely that aquatic ecological receptors could have exposure to the groundwater COCs at the Site.

Since terrestrial and aquatic ecological receptors should not have significant exposure to the COCs at the Site, this CSM is focused on the pathways by which human receptors may be exposed to site-related chemicals in the environment. A schematic diagram of how COCs are released and transported, and the different ways in which potential human receptors may be exposed are presented as Figure 10. COC sources, transport processes, and potential human exposure scenarios are discussed in greater detail below.

### 3.3 FATE AND TRANSPORT OF CONTAMINANTS

Figure 10 is a graphical representation of the fate and transport of the COCs at the Site. The source of the soil and groundwater contamination at the Site appears to be historical releases from the storage and use of dry cleaning solvents that contained PCE. Solvents such as PCE are typically a dense non-aqueous phase liquid (DNAPL) that is denser than water (i.e., sinks). It is important to note that evidence indicating the presence of DNAPL has not been observed in the subsurface at the Site and is only discussed here to reflect theoretical fate and transport processes.

After being released, DNAPL will migrate downward through permeable materials until encountering an impermeable layer. DNAPL will migrate downward through groundwater (the

saturated zone), and if a sufficient mass of DNAPL was released, it can migrate horizontally along the impermeable layer. Volatile chemicals in DNAPL can adsorb to soil particles, dissolve in soil pore water or groundwater, and volatilize into soil pore air.

Volatile COCs adsorbed to vadose zone soil can partition into soil pore air and vice versa. Similarly, COCs adsorbed to vadose zone soil can partition into soil pore water. In the saturated zone, COCs in soil can partition to the dissolved phase in groundwater and vice versa. Dissolved phase COCs in the groundwater near the boundary with the vadose zone can partition into overlying soil pore air.

Shallow groundwater levels beneath the Subject Property area have ranged from approximately 8.7 to 16.5 feet bgs, and the general flow direction of the shallow groundwater beneath the area is to the east-northeast. Advection can transport dissolved COCs in shallow groundwater along the flow path. Also, dissolved COCs in groundwater may migrate via diffusion.

Volatile contaminants in soil gas within the vadose zone can migrate to the ground surface and outdoor air or indoor air. Upon migration to outdoor air, airborne concentrations are expected to be minimal due to instantaneous dispersion and mixing with ambient air at the soil-air interface. Vapors may be present at higher concentrations in the outdoor air within an excavation such as a trench, which may be relevant under a future construction scenario. Vapors may enter indoor air if volatile contaminants are present in the subsurface beneath or near a building. Vapor intrusion into buildings located above impacted soil or groundwater is typically considered to be a potentially complete exposure pathway; however, the results of the indoor air sampling within Building C during this investigation and the 2021 assessment indicate that vapor intrusion of HVOCs into Building C is an incomplete exposure pathway.

Chemicals present in exposed surface soil may be transported to ambient air in the form of suspended particulates (i.e., dust). However, the surface of the Subject Property area is paved or covered with buildings or vegetation, and dust generation is expected to be insignificant.

### **3.4 POTENTIAL HUMAN RECEPTORS AND EXPOSURES**

Potential current and future human receptors and exposure pathways are described in the following sections and summarized in Figure 10.

#### **3.4.1 HUMAN RECEPTORS**

The Subject Property is zoned Industrial, and it has been used for commercial and/or industrial purposes for over 20 years. It is SLR's understanding that there are no current plans to change the industrial use or zoning of the property. The hours of operation of the current tenants at the Subject Property vary, and Coit is open 24-hours a day, 7 days a week to provide water damage and restoration services to its off-site customers. However, it is SLR's understanding that any individual on-property facility worker for the current tenants works 8- to 10-hour workdays, 5 days a week. For the foreseeable future, commercial and industrial workers at the Subject Property are the people with the greatest potential to have exposure to COCs in the environment.

In addition to facility workers, visitors (e.g., customers, delivery personnel) are expected to be present at the property for short periods of time. Also, it is possible that construction workers may visit the property in the foreseeable future. Future construction workers are expected to work typical eight-hour workdays. Property visitors and construction workers are therefore identified as potential future receptors, and property visitors and facility workers are identified as potential current receptors.

The Subject Property is surrounded by industrial and commercial businesses. Maps of the Subject Property area were used to identify potential nearby sensitive receptors such as schoolchildren, as well as elderly and/or chronically infirm adults. The closest school (Chrysalis High School) is located over 2,600 feet to the southeast of the Subject Property. The nearest hospital (Evergreen Health Medical Center) is located over 2.5 miles feet to the south-southwest of the Subject Property, and the nearest retirement community (Fairwinds – Brittany Park) is located over 1,100 feet to the northeast of the property, on the opposite side of the Sammamish River. As a result, no schools, hospitals, or retirement homes/facilities are present within 1,000 feet of the Subject Property. The Site COCs are not expected to migrate to any of these locations where sensitive receptors may be present.

### **3.4.2 POTENTIAL HUMAN EXPOSURES**

#### **3.4.2.1 Currently Known Exposures**

Receptors currently present at the Subject Property include employees of the current facility tenants that work within the property building, and visitors to the property. Facility workers and visitors may inhale volatile contaminant vapors that migrate into the building from subsurface soil and groundwater; however, the results of the indoor air sampling within Building C during this investigation and the 2021 assessment indicate that vapor intrusion of HVOCs into the building is an incomplete exposure pathway.

Based on the soil sample analytical results from this investigation and the previous assessments, the HVOC-impacted soil and groundwater are present beneath the concrete floor of the Subject Property building and beneath the concrete and asphalt surfaces near the oil/water separator. The depths of the impacted soil range from approximately 2 to 21 feet bgs, and the impacted groundwater occurs at depths below 8.7 feet bgs. Due to the surface pavement, current workers and visitors are unlikely to directly contact the COCs in the soil. Similarly, the groundwater at and near the Site is not currently used as a domestic water source and there are no significant pathways by which people may directly contact COCs in groundwater.

There are no residential buildings located above or near the impacted soil or shallow groundwater at the Site. Therefore, the potential vapor exposure route to residents is incomplete. The Subject Property is likely to continue to support commercial and industrial operations for the foreseeable future, and a residential development on the property is not expected.

#### 3.4.2.2 Potential Future Exposures

It is SLR's understanding that there are no plans to redevelop the Subject Property in the foreseeable future. However, for the purposes of this CSM, it is assumed that some development may take place and that future construction workers could be exposed to subsurface soil during construction and excavation activities. Potential exposure routes include dermal contact, incidental soil ingestion, and inhalation of windblown dust or vapors. Potential future soil excavations could extend below the shallow groundwater table, and direct contact with groundwater (e.g., incidental ingestion and dermal contact) may occur during future construction activities.

As discussed previously, the shallow groundwater beneath the Subject Property is not currently used as a domestic water supply. However, consistent with MTCA regulations, it was conservatively assumed that the shallow groundwater could be used for domestic purposes in the future. Groundwater ingestion and dermal contact, as well as inhalation of volatile chemicals during domestic use (e.g., showering, dishwashing), are assumed to be potentially complete exposure pathways for hypothetical residents using groundwater as a domestic water source.

## 4. NATURE AND EXTENT OF CONTAMINATION

As described in the CSM, the soil and groundwater COCs at the Site are chlorinated solvents (PCE and daughter products cis-1,2-DCE and VC) associated with the previous dry cleaning operations in Suite C-102. The soil COCs are PCE, cis-1,2-DCE, and VC, and the only groundwater COC is VC. Therefore, the PCE, cis-1,2-DCE, and VC concentrations were used to evaluate the extents of the HVOC-impacted soil at the Site, and the VC concentrations were used to evaluate the extents of the HVOC-impacted groundwater.

### 4.1 EXTENTS OF SOIL CONTAMINATION

The soil sample analytical results from this investigation and the previous assessments at the Subject Property area show that PCE concentrations greater than the MTCA Method A cleanup level and cis-1,2-DCE and VC concentrations greater than the Method B cleanup levels occur at the former dry cleaning machine area, and cis-1,2-DCE concentrations greater than the Method B cleanup level occur at the oil/water separator area. The estimated areas of HVOC-impacted soil at the Site are shown on Figure 4. The lateral extents of the PCE-, cis-1,2-DCE-, and VC-impacted soil at the former dry cleaning machine area have been delineated in all directions, except to the northeast (see Figure 4). The impacted soil at the former dry cleaning machine area does not extend to a depth greater than 22.5 feet bgs, and the vertical extents have been delineated. The lateral extents of the cis-1,2-DCE-impacted soil at the oil/water separator area have only been delineated to the west (see Figure 4). The impacted soil at the oil/water separator area extends to depths below 15 feet bgs and the vertical extents have not been delineated.

### 4.2 EXTENTS OF GROUNDWATER CONTAMINATION

The groundwater sample analytical results from the 2022 and 2023 monitoring events at the Subject Property area show that there are two areas that contain VC concentrations greater than the MTCA Method A cleanup level. The areas of VC-impacted groundwater occur at the former dry cleaning machine area (the southern VC plume) and at the oil/water separator area (the northern VC plume), and extend to the northeast of both source areas. The estimated areas of the HVOC-impacted groundwater at the Site are shown on Figure 9. The lateral extents of the southern VC plume have been delineated to the west, southwest, and east-northeast directions with properly developed groundwater monitoring wells (see Figure 9). In addition, the groundwater sample collected in 2021 from the temporary well in boring B-6, located to the north-northeast of the plume (see Figure 4), did not contain detectable VC concentrations. The lateral extents of the northern VC plume are only delineated to the west and southwest with properly developed groundwater monitoring wells; however, the groundwater samples collected in 2021 from the temporary wells in borings B-5 and B-6, located to the northeast of the plume (see Figure 4), did not contain detectable VC concentrations. The vertical extents of the VC-impacted groundwater have not been delineated at either plume area.

## 5. FOCUSED FEASIBILITY STUDY

SLR conducted a focused feasibility study (FFS) to develop and evaluate three potential remedial action alternatives for the Site in accordance with WAC 173-340-350. The primary objectives for the remedial action are to reduce the HVOC concentrations in the soil and groundwater to below the MTCA Method A or Method B cleanup levels, and to obtain a no further action opinion from Ecology.

This is a focused version of a feasibility study because it assumes that MTCA will be the primary regulation for the remedial action at the sites, and it does not include an Applicable or Relevant and Appropriate Regulations (ARAR) analysis. In addition, this feasibility study is focused because it does not include an All Known and Reasonable Technologies (AKART) analysis. The remedial alternatives developed for this study were based on the technologies that SLR identified as most appropriate based on the site conditions, the remedial action objections (RAOs) described above, and our experience and best professional judgement. A detailed analysis of the remedial action alternatives was performed consistent with WAC 173-340-360 criteria.

### 5.1 REMEDIAL ACTION ALTERNATIVES

This section summarizes the three remedial alternatives that were developed and evaluated for the sites. For each alternative, the key components are described, including conceptual engineering designs. Component costs and unit pricing were developed based on prior experience and recent vendor information.

The following three alternatives were developed and evaluated:

1. Alternative 1: Enhanced Reductive Dechlorination (RDC)
2. Alternative 2: Vacuum-Enhanced Groundwater Recovery and Monitored Natural Attenuation (MNA)
3. Alternative 3: Soil Excavation, Groundwater Recovery, and MNA

#### 5.1.1 ALTERNATIVE 1: ENHANCED RDC

Alternative 1 would include the injection of emulsified soybean oil and bioaugmentation solution to produce subsurface conditions that stimulate anaerobic RDC of the remaining HVOCs in the soil and groundwater at the Site. After the injections have been completed, the RDC performance in the groundwater would be monitored until the MTCA Method A or Method B cleanup levels are met. After meeting the groundwater cleanup levels, a confirmation soil boring would be drilled at the location of previous boring GP-4 to verify that the remaining PCE concentrations in the soil are below the MTCA Method A cleanup level. The cis-1,2-DCE and vinyl chloride concentrations in the soil exceed MTCA Method B cleanup levels based on protection of groundwater so an empirical demonstration (groundwater concentrations below the cleanup

levels) would be used to show that the remaining cis-1,2-DCE and vinyl chloride concentration in the soil are protective of human health and the environment. The approximate solution injection locations are shown on Figure 11.

The conceptual scope of work for Alternative 1 is described below, and the estimated costs for Alternative 1 are presented in Table 6.

#### 5.1.1.1 Pre-Remediation Activities

Prior to conducting the remedial action, additional investigation activities would be conducted to further delineate the lateral and vertical extents of HVOC-impacted soil and groundwater in accordance with MTCA. A total of four soil borings would be drilled and sampled within the area of HVOC-impacted soil near the oil/water separator and to the north, south, and east of the oil/water separator to further assess the lateral and vertical extents of the impacted soil at that area. The deep soil boring within the area of impacted soil would be completed as a deep groundwater monitoring well to assess the vertical extent of the impacted groundwater. To delineate the northern, northeastern, and southeastern extents of the northern VC plume (as well as the northern extents of the southern VC plume), four additional shallow groundwater monitoring wells would be installed to the north of Building C. The proposed locations of the additional soil borings, deep groundwater monitoring well, and shallow groundwater monitoring wells to the north of Building C are shown on Figure 11.

A deep soil boring would be drilled and sampled within the southern VC plume area and completed as a deep groundwater monitoring well to delineate the eastern extent of the HVOC-impacted soil near the former dry cleaning machine and to assess the vertical extent of the impacted groundwater. To further delineate the southern extent of the southern VC plume, a shallow groundwater monitoring well would be installed within Suite C-101. The proposed locations of the additional deep and shallow groundwater monitoring wells within Building C are shown on Figure 11. A groundwater monitoring event would be conducted that includes sampling all of the newly installed shallow and deep monitoring wells at the Site. Based on the results of the additional investigation activities, this scope of remedial alternative may be expanded.

To evaluate the effectiveness of the injection of an emulsified soybean oil and bioaugmentation solution, an injection pilot test would be conducted to evaluate the dechlorination rate, the radius of injection influence, and the design parameters for a full-scale system.

#### 5.1.1.2 Solution Injection

The areas of HVOC-impacted soil and groundwater at the Site would be remediated by RDC, and a soybean oil and bioaugmentation solution would be injected into the subsurface to stimulate the RDC. A licensed well driller would use direct-push drilling methods to advance borings to depths of approximately 20 feet bgs. The solution would be injected into each of the borings at depths of approximately 7 to 20 feet bgs, and at locations with known shallow soil contamination, the solution would also be injected from approximately 2 to 7 feet bgs. The borings would be

spaced at an assumed injection radius of influence (ROI) of approximately 20 feet (see Figure 11). A total of 11 injection borings would be located within the impacted areas; however, the spacing and number of the injection borings may be modified based on the results of the additional investigation and the injection pilot test.

For cost estimating purposes, SLR assumed that emulsified soybean oil would be mixed with a bioaugmentation solution such as SiREM's KB-1, Regenesys' BDI Plus, or another *Dehalococcoides* culture to provide sufficiently large microorganism populations for RDC to proceed rapidly. Initial calculations estimate that approximately 98,000 gallons of the soybean oil and bioaugmentation solution would be required to create a sufficient anaerobic environment within the target treatment area. A full round of injections is expected to take 18 days based on an assumed injection flow rate of 3 gallons per minute (gpm) per injection point, and injection into up to 5 points at a time. For the purposes of this FFS, we assumed that only one round of solution injections would be required.

#### 5.1.1.3 Groundwater Monitoring

The groundwater at the Site would be monitored over a period of approximately 2 years to assess the effectiveness of the remedial action and to monitor the RDC of the remaining groundwater COC concentrations. The groundwater monitoring events would be conducted on a quarterly basis.

During each groundwater monitoring event, the depths to groundwater would be measured in all of the 14 shallow groundwater monitoring wells and 2 deep groundwater monitoring wells at the Site. A groundwater sample would be collected from each of the wells by using a peristaltic pump with new tubing (low-flow sampling methods). The samples would be submitted to Apex for analysis for full-list VOCs by EPA Method 8260D (including VC by EPA Method 8260D SIM). In addition, the samples from MW-1, MW-2, MW-4, MW-8, and MW-9 would be analyzed for dissolved ethene by Method RSK 175 on an annual basis to monitor the progress of the final dechlorination stage of VC. The locations of the monitoring wells are shown on Figure 11.

#### 5.1.2 ALTERNATIVE 2: VACUUM-ENHANCED GROUNDWATER RECOVERY AND MNA

For Alternative 2, a vacuum-enhanced groundwater recovery system would be installed and operated to reduce the HVOC concentrations in the soil and groundwater at the Site to below the MTCA Method A or Method B cleanup levels. After the vacuum-enhanced groundwater recovery operations have been completed, MNA would be implemented until the soil and groundwater concentrations are below the Method A or Method B cleanup levels. After meeting the groundwater cleanup levels, a confirmation soil boring would be drilled at the location of previous boring GP-4 to verify that the remaining PCE concentrations in the soil are below the MTCA Method A cleanup level. The approximate locations of the vacuum-enhanced groundwater recovery wells are shown on Figure 12. The conceptual scope of work for Alternative 2 is described below, and the estimated costs are presented in Table 7.

#### 5.1.2.1 Pre-Remediation Activities

Prior to conducting the remediation activities, the additional investigation activities described for Alternative 1 would be conducted. Based on the results of the additional investigation activities, the scope of this remedial alternative may be expanded.

Prior to installing the vacuum-enhanced groundwater recovery/treatment system, a Notice of Construction permit would be obtained from the Puget Sound Clean Air Agency (PSCAA) to construct and operate the system and emit treated vapors to the atmosphere. In addition, a discharge permit would be obtained from King County Industrial Waste (KCIW) to discharge the extracted groundwater, after treatment, into the sanitary sewer system on the Subject Property.

To evaluate the effectiveness of vacuum-enhanced groundwater recovery, a groundwater recovery well would be installed within the southern VC plume that is constructed with a 15-foot-long or 20-foot-long screen that intercepts the groundwater table and a 2-foot-long sump below the screen. Vacuum-enhanced groundwater pumping tests would be conducted to evaluate the radius of pumping influence and the radius of vacuum influence, and to obtain the necessary data to design a full-scale system.

#### 5.1.2.2 Vacuum-Enhanced Groundwater Recovery/Treatment

To reduce the HVOC concentrations in the soil and groundwater at the Site to below the MTCA Method A or Method B cleanup levels, a licensed driller would install a total of six groundwater recovery wells (three within each plume area) within the areas of the impacted soil and groundwater. The recovery wells are spaced by using an assumed radius of pumping influence of 30 feet and a sustained pumping rate of 0.5 gallons per minute (gpm) per well (subject to change based on results of the pumping tests). The locations of the proposed groundwater recovery wells are shown on Figure 13. Each recovery well would be constructed of 4-inch-diameter, Schedule 40 PVC with a 15-foot-long or 20-foot-long screen that intercepts the groundwater table. The screens of the recovery wells located within the northern plume area would be installed at depths from approximately 7 to 22 feet bgs. Due to the known shallow impacted soil, the screens of the recovery wells located within the southern plume area would be installed at depths from approximately 3 to 23 feet bgs.

A pneumatic submersible pump within each recovery well would be plumbed via individual underground Schedule 40 PVC piping to a groundwater treatment system that would be located within a remediation system enclosure at the southeastern corner of the parking lot to the northwest of Building C. Within the enclosure, the groundwater treatment system would consist of an air stripper. The air from the air stripper would be treated by using two 1,000-pound vapor-phase granular activated carbon (GAC) canisters in series. An air compressor within the enclosure would supply the air pressure to operate the pneumatic pumps.

To extract the HVOCs from the soil and to extend the radius of groundwater pumping influence, each groundwater recovery well would be plumbed via individual Schedule 40 PVC piping to a vacuum blower that is located within the system enclosure. The extracted soil vapors would be

treated by the two GAC canisters described above. For the purposes of this FFS, we assumed that the average extracted airflow rate would be approximately 70 cubic feet per minute (cfm) per vacuum-enhanced recovery well, for a total flow of approximately 420 cfm at a vacuum of approximately 40 inches of water.

For cost estimating purposes, SLR assumed that the vacuum-enhanced groundwater recovery/treatment system and the SVE system would operate for a period of two years. During system operation, system operation and maintenance (O&M) visits would be conducted on a weekly basis for the first month of operation and then on an every-other-week basis. SVE system samples would be collected on a monthly basis to monitor carbon usage and to ensure that the mass of emitted HVOCs is below the PSCAA requirement. Groundwater treatment system samples would be collected on a monthly basis to ensure compliance with KCIW discharge limits. Prior to shutdown of the remediation system, a confirmation soil boring would be drilled at the location of previous boring GP-4 to verify that the remaining PCE concentrations in the soil are below the MTCA Method A cleanup level.

#### 5.1.2.3 MNA

The groundwater beneath the property area would be monitored over a period of approximately three years to assess the effectiveness of the remedial action and to monitor the natural attenuation of the remaining COC concentrations. During the period of system operations and during the last year of monitoring, the groundwater monitoring events would be conducted on a quarterly basis.

During each groundwater monitoring event, the depths to groundwater would be measured in all of the 14 shallow groundwater monitoring wells and 2 deep groundwater monitoring wells at the Subject Property area. A groundwater sample would be collected from each of the wells by using a peristaltic pump with new tubing (low-flow sampling methods). The samples would be submitted to Apex for analysis for full-list VOCs by EPA Method 8260D (including VC by EPA Method 8260D SIM). The locations of the wells to be sampled for Alternative 2 are shown on Figure 12.

#### 5.1.3 ALTERNATIVE 3: SOIL EXCAVATION, GROUNDWATER EXTRACTION, AND MNA

For Alternative 3, the soil at the Site that contains HVOC concentrations greater than the MTCA Method A or Method B cleanup levels would be excavated and transported off-site for disposal. The approximate areas of excavation are shown on Figure 13. Each excavation would extend to a depth of approximately 20 feet bgs, and the groundwater that enters the open excavation would be extracted to reduce the HVOCs concentrations in the groundwater within and near the excavation areas to below the MTCA Method A or Method B cleanup levels. MNA would address the remaining impacted groundwater at the Site.

The conceptual scope of work for Alternative 3 is described below, and the estimated costs are presented in Table 8.

#### 5.1.3.1 Pre-Remediation Activities

Prior to the soil excavation, SLR would design a shoring plan for the excavation, and grading and shoring permits would be obtained from the City of Woodinville. In addition, a discharge permit would be obtained from KCIW to discharge the extracted groundwater, after treatment, into the sanitary sewer system on the subject property. All of the groundwater monitoring wells within the planned excavation areas (MW-1, MW-2, MW-4, MW-5, and both of the proposed deep wells) would be abandoned by a licensed driller. The section of the interior wall between Suites C-101 and C-102, within and near the proposed excavation area in Building C, would be removed prior to conducting the excavation work.

#### 5.1.3.2 Soil Excavation and Groundwater Extraction/Treatment

Based on the results of this investigation and the previous assessments, the HVOC-impacted soil at the Subject Property area occurs at depths as shallow as approximately 2 feet bgs and extends to depths of approximately 20 feet bgs (approximately 3 feet below the low seasonal groundwater table). To remediate the impacted soil and remove the primary source of the impacted groundwater, each soil excavation would extend to a depth of approximately 20 feet bgs. To protect the northwestern wall of Building C during the soil excavation within the building, trench boxes will be used to excavate 4-foot-wide sections of soil along the building wall, and after the stacked trench boxes reach the desired excavation depth, the boxes will be filled with controlled-density fill (CDF) and then removed. The approximate location of CDF gravity shoring wall is shown on Figure 13. After the CDF wall has been constructed, the other sidewalls of the excavation will maintain a 1:1 slope to minimize sloughing. The sidewalls of the soil excavation located outside of the building will also maintain a 1:1 slope.

An estimated 2,910 in-place cubic yards (cy) of soil would be excavated and transported off-site for hazardous waste disposal at a licensed facility. The groundwater that collects in each open excavation would be pumped through a temporary treatment system that includes a 20,000-gallon settling tank, sand or bag filters, two liquid-phase 1,000-pound GAC canisters in series, and a 20,000-gallon holding tank. The treated water would be sampled and then after receiving analytical results that demonstrate that the concentrations are below the discharge limits, the water in the holding tank would be batch discharged into the sewer system. An estimated 400,000 gallons of groundwater would be pumped from the excavation.

After excavating the impacted soil and extracting the groundwater, each excavation would be backfilled with imported clean backfill material. The ground surface of each backfilled area would be completed with concrete, and the previously removed section of the interior wall between Suites C-101 and C-102 would be replaced. After backfilling the excavations, a total six replacement groundwater monitoring wells (four shallow wells and two deep wells) would be installed at the locations of the previously abandoned wells to monitor the effectiveness of the remedial action.

### 5.1.3.3 MNA

After completing the soil excavation and groundwater recovery/treatment activities, the groundwater beneath the property area would be monitored over a period of approximately three years to assess the effectiveness of the remedial action and to monitor the natural attenuation of the remaining COC concentrations. The groundwater monitoring events would be conducted on a quarterly basis during the first and third years of monitoring and on a semiannual basis during the second year of monitoring (during the periods of high and low groundwater elevations).

During each groundwater monitoring event, the depths to groundwater would be measured in all of the 14 shallow groundwater monitoring wells and 2 deep groundwater monitoring wells at the Subject Property area. A groundwater sample would be collected from each of the wells by using a peristaltic pump with new tubing (low-flow sampling methods). The samples would be submitted to Apex for analysis for full-list VOCs by EPA Method 8260D (including VC by EPA Method 8260D SIM). The locations of the wells to be sampled for Alternative 3 are shown on Figure 13 (six of the wells shown on Figure 13 will be abandoned and the replacement wells will be included in the groundwater monitoring program).

## 5.2 EVALUATION BASIS FOR REMEDIAL ACTION ALTERNATIVES

Cleanup actions are subject to the threshold requirements set forth in WAC 173-340-360(2)(a). Under the threshold requirements, the cleanup action shall:

- Protect human health and the environment;
- Comply with cleanup standards;
- Comply with applicable state and federal laws; and
- Provide for compliance monitoring.

In addition, for cleanup actions that meet the threshold requirements, the selected actions shall:

- Use permanent solutions to the maximum extent practicable;
- Provide for a reasonable restoration time frame; and
- Consider public concerns.

### 5.2.1 DISPROPORTIONATE COST ANALYSIS

The MTCA Disproportionate Cost Analysis [DCA; described in WAC 173-340-360(3)(e) and (3)(f)] is used to evaluate which of the alternatives that meet the threshold requirements is permanent to the maximum extent practicable. This analysis involves comparing the costs and benefits of

alternatives and selecting the alternative whose incremental costs are not disproportionate to the incremental benefits. The evaluation criteria for the DCA are specified in WAC 173-340-360(3)(f), and include protectiveness, permanence, effectiveness over the long term, management of short-term risks, implementability, consideration of public concerns, and costs. Further definition of the evaluation criteria provided in WAS 173-340-360(3)(f) is presented in the following subsections.

To favor the benefits of criteria associated with the primary goals of the interim action, a weighting system was used in this FFS for the DCA. That is, the criteria associated with environmental benefits are more highly weighted than other criteria that are associated with non-environmental factors. Each of the MTCA criteria used in the DCA and the weighting factors for the criteria are described below and are shown in Table 9.

#### **5.2.1.1 Protectiveness**

The remediation alternatives are evaluated for overall protectiveness of human health and the environment, including the degree to which existing risks are reduced, the time required to reduce the risks at the facility and attain cleanup standards, the on-site and off-site risks resulting from implementing the alternative, and the improvement of the overall environmental quality. For the protectiveness criterion, a weighting factor of 30 percent was applied toward the overall benefit analysis. The high weight placed on protectiveness relative to the other factors is warranted due to the overall importance of protection of human health and the environment as the primary goal of cleanup at the Site.

#### **5.2.1.2 Permanence**

The permanence of a cleanup action is defined as the degree to which the alternative permanently reduces the toxicity, mobility, or volume of hazardous substances, including the adequacy of the alternative in destroying the hazardous substances, the reduction or elimination of hazardous substance releases and sources of releases, the degree of irreversibility of waste treatment process, and the characteristics and quantity of generated treatment residuals. A weighting factor of 20 percent was applied to the numeric values associated with the permanence criterion.

#### **5.2.1.3 Effectiveness over the Long Term**

Long-term effectiveness includes the degree of certainty that the alternative will be successful, the reliability of the alternative during the period of time hazardous substances are expected to remain on-site at concentrations that exceed cleanup levels, the magnitude of residual risk with the alternative in place, and the effectiveness of controls required to manage treatment residues or remaining wastes. The MTCA regulations provide guidelines for ranking cleanup action components when assessing the relative degree of long-term effectiveness. These elements are, in descending order: reuse or recycling; destruction or detoxification; immobilization or solidification; on-site or offsite disposal in an engineered, lined and monitored facility; on-site isolation or containment with attendant engineering controls; and institutional controls and

monitoring. The MTCA preference ranking must be considered along with other site-specific factors in the evaluation of long-term effectiveness. A weighting factor of 20 percent was assigned to the long-term effectiveness criterion.

#### **5.2.1.4 Management of Short-Term Risks**

This criterion considers potential risk to human health and the environment associated with the alternative during construction and implementation, and the effectiveness of measures that will be taken to manage such risks. Examples of risks include potential exposure to hazardous substances by site workers during implementation, mobilization of contaminants during construction, or general safety risks and construction hazards. A weighting factor of 10 percent was assigned to this criterion. This lower rating is based on the limited timeframe associated with the risks and the general ability to correct short-term risks during construction without significant effect on human health and the environment.

#### **5.2.1.5 Technical and Administrative Implementability**

This criterion considers the feasibility of a selected remedy to be implemented, including consideration of whether the alternative is technically possible, the availability of necessary off-site facilities, services and materials, administrative and regulatory requirements, scheduling, size, complexity, monitoring requirements, access for construction operations and monitoring, and integration with existing facility operations and other current or potential remedial actions. Implementability is less associated with the primary goal of the cleanup action, protection of human health and the environment, and therefore, has a lower weighting factor. In addition, the issues associated with the implementability are reflected in the remedy costs. Therefore, the weighting factor for implementability was 10 percent.

#### **5.2.1.6 Consideration of Public Concerns**

The public involvement process under MTCA is used to identify potential public concerns regarding cleanup action alternatives. The extent to which an alternative addresses those concerns is part of the evaluation process. This includes concerns raised by individuals, community groups, local governments, tribes, federal and state agencies, and other organizations with an interest in the Site. The weighting factor used for this criterion was 10 percent. Similar to the applied factor for implementability, the low weighting of public concerns prevents duplication of issues that are addressed with other criteria. Historically, public concerns for most sites are typically related to environmental concerns and performance of the cleanup action, which are addressed under other MTCA criteria such as protectiveness and permanence.

#### **5.2.1.7 Cost**

The costs to implement the cleanup action alternatives are evaluated, including the cost of construction and operation, and the net present value of any long-term costs (a discount rate of

2.5 percent for a 20-year period was applied<sup>1</sup>). For the alternatives described in this FFS, long-term costs include groundwater monitoring costs. The design life of the cleanup components is estimated, and the cost of replacement or repair of major elements is included in the estimate. Costs were compared against benefits to assess cost effectiveness and practicability of the cleanup action alternatives. No weighting factor was applied to this quantitative category.

### 5.3 EVALUATION OF REMEDIAL ALTERNATIVES

This section provides an evaluation of the three remedial action alternatives. Each alternative is discussed independently relative to the MTCA criteria used in the DCA, and a raw score is provided for the alternative, on a scale of 1 to 10. In this scheme, a raw score of 10 is the highest (i.e., the most favorable) potential ranking, and a raw score of 1 represents the least favorable potential ranking. Raw scores were carried forward into the DCA, where they were weighted according to the factors discussed in Section 5.2.1.

#### 5.3.1 PROTECTIVENESS

With proper implementation, all of the alternatives can be adequately protective of human health and the environment after the remedial action has been completed. Alternative 3 has the highest score (9) for protectiveness because soil excavation and groundwater extraction will remove the HVOC-impacted soil and the greatest groundwater concentrations in the shortest period of time. Alternatives 1 and 2 both have a score of 7 because there is some uncertainty regarding the effectiveness of the injection of an emulsified soybean oil and bioaugmentation solution and of vacuum-enhanced groundwater recovery, respectively, and these alternatives will not be conducted without successful pilot testing results.

#### 5.3.2 PERMANENCE

Alternative 1 has the highest permanence score (9) because the contaminants will be detoxified by reductive dechlorination within a relatively short time period. Alternative 2 has a lower score (7) because most of the extracted contaminants will be adsorbed to carbon and transferred to a landfill for disposal (and demobilization) rather than being permanently destroyed. Alternative 3 also has a score of 7 because the contaminants in the excavated soil are transferred to a landfill rather than being permanently destroyed.

#### 5.3.3 EFFECTIVENESS OVER THE LONG TERM

Since vinyl chloride is the only groundwater COC at the Site, it appears that reductive dechlorination and natural attenuation are currently occurring and will eventually reduce the HVOC concentrations to below the cleanup levels. Therefore, all of the remedial alternatives will be effective over the long term. Based on the MTCA preference ranking described in Section 5.2.1.3, Alternative 1 has the highest score (9) because it relies on reductive dechlorination (e.g., detoxification). Alternative 2 has a lower score (7) because most of the remediated HVOC mass

<sup>1</sup> OMB Circular No. A-94 (Executive Office of the President, Office of Management and Budget, 2022 Discount Rates memo dated March 15, 2022).

will be adsorbed to carbon and the carbon waste will be disposed off-site at a landfill (e.g., off-site disposal in an engineered, lined and monitored facility). Alternative 3 also has a score of 7 because the contaminants in the excavated soil will be disposed off-site at a landfill.

#### **5.3.4 MANAGEMENT OF SHORT-TERM RISKS**

Alternative 1 has the highest score (8) for management of short-term risks because it only includes drilling and solution injection activities, and the impacts on the Building C tenant operations would be relatively minor. Alternative 2 has a lower score (6) due to the construction activities, which include drilling, trenching, equipment installation, and electrical work. Alternative 3 has the lowest score (4) due to safety risks and construction hazards associated with soil excavation within a building, and to the substantial impacts to the tenant operations in Suites C-101 and C-102 for over a month.

#### **5.3.5 TECHNICAL AND ADMINISTRATIVE IMPLEMENTABILITY**

Alternative 1 has the highest score (8) for technical and administrative implementability because it is the least complex of the alternatives to implement. Alternative 2 has a lower score (5) due to the permitting, monitoring, and reporting requirements for the remediation system, the impacts to Building C tenant operations during the well installation and system construction activities, and the closure of two parking spaces during the remediation system operation period (two years) for the system equipment enclosure. Alternative 3 has the lowest score (3) due to the permitting requirements and the impacts to the tenants in Suites C-101 and C-102 for over a month during the excavation, groundwater extraction, and backfilling activities.

#### **5.3.6 CONSIDERATION OF PUBLIC CONCERNS**

Alternative 1 has the highest score (9) because there should be limited public concerns associated with enhanced reductive dechlorination. Alternative 2 has a lower score (7) because there will be permits and approvals required to install and operate the remediation system and there may be noise concerns associated with the system equipment. Alternative 3 also has a score of 7 because there will be permits and approvals required for the soil excavation and groundwater extraction/treatment activities, and there may be concerns regarding additional truck traffic during the excavation work.

#### **5.3.7 COST**

The total estimated costs for Alternatives 1, 2, and 3 are \$630,000, \$1,050,000, and \$2,210,000, respectively. Detailed cost estimates for each alternative are provided in Tables 6, 7, and 8. The remedial action costs include a 20 percent contingency.

### **5.4 RESULTS OF DISPROPORTIONATE COST ANALYSIS**

The results of our evaluation of the remediation alternatives are summarized as a numeric scoring system in Table 9. The highest total weighted score (benefit value) was 8.2 for Alternative 1, followed by 6.9 for Alternative 3, and 6.7 for Alternative 2. Based on the total estimated costs

and total benefit values, the cost per benefit value for each alternative was calculated. The cost per benefit values were \$76,829 for Alternative 1, \$156,716 for Alternative 2, and \$320,290 for Alternative 3. Based on this analysis, Alternative 1 is the recommended alternative. However, pilot testing is required to determine the effectiveness of the injected emulsified soybean oil and bioaugmentation solution, and the radius of injection influence.

## 6. CONCLUSIONS

From April 2022 through January 2023, SLR conducted a subsurface assessment at the Subject Property and surrounding area. The objectives of the work were to: 1) delineate the lateral extents of the known PCE-impacted soil beneath Building C in the vicinity of the former dry cleaning machine, 2) assess if the former Wincraft print washing operation in Suite C-101 of Building C was an additional source of HVOC-impacted soil and/or groundwater, 3) assess if groundwater samples from properly developed monitoring wells at the Subject Property area would contain HVOC concentrations greater than the MTCA Method A or Method B cleanup levels, 4) delineate the lateral extents of the HVOC-impacted groundwater (if groundwater samples from properly developed monitoring wells contained HVOC concentrations greater than the Method A or Method B cleanup levels), 5) monitor any seasonal effects on the groundwater flow direction and HVOC concentrations in the groundwater, and 6) assess any seasonal effects on the indoor air quality within smaller spaces in Building C to further assess the soil vapor pathway into the building. In addition, SLR developed a CSM that described the transport mechanisms and pathways by which human and ecological receptors may be exposed to the contaminants in the soil and groundwater at the Site, and conducted an FFS to develop and evaluate soil and groundwater remediation alternatives for the Site.

The following conclusions are supported by the results of this assessment and the previous investigations at the Subject Property and surrounding area, as well as the results of the conceptual site model and the focused feasibility study.

- Based on the results of this investigation and the previous assessments, there are two areas of soil and groundwater beneath the Subject Property area that contain HVOC concentrations (PCE, cis-1,2-DCE, and/or VC) greater than the MTCA Method A or Method B cleanup levels. PCE concentrations greater than the Method A soil cleanup level and cis-1,2-DCE and VC concentrations greater than the Method B soil cleanup levels occur at the former dry cleaning machine area, and cis-1,2-DCE concentrations greater than the Method B soil cleanup level occur at the oil/water separator area. The estimated areas of HVOC-impacted soil at the Site are shown on Figure 4. VC is the only groundwater COC at the Site, and VC concentrations greater than the Method A groundwater cleanup level occur at the former dry cleaning machine area (the southern VC plume) and at the oil/water separator area (the northern VC plume). Both plumes extend to the east-northeast (hydraulically downgradient) of the former dry cleaning machine area and the oil/water separator area. The estimated areas of the VC-impacted groundwater are shown on Figure 9.
- The lateral extents of the PCE-, cis-1,2-DCE-, and VC-impacted soil at the former dry cleaning machine area have been delineated in all directions, except to the northeast (see Figure 4). The impacted soil at that former dry cleaning machine area does not extend to a depth of at least 22.5 feet bgs, and the vertical extents have been delineated.

- The lateral extents of the cis-1,2-DCE-impacted soil at the oil/water separator area have only been delineated to the west (see Figure 4). The impacted soil at the oil/water separator area extends to depths below 15 feet bgs and the vertical extents have not been delineated.
- The lateral extents of the southern VC plume have been delineated to the west, southwest, and east-northeast directions with properly developed groundwater monitoring wells (see Figure 9). In addition, the groundwater sample collected in 2021 from the temporary well in boring B-6, located to the north-northeast of the plume (see Figure 4), did not contain detectable VC concentrations. The lateral extents of the northern VC plume are only delineated to the west and southwest with properly developed groundwater monitoring wells; however, the groundwater samples collected in 2021 from the temporary wells in borings B-5 and B-6, located to the northeast of the plume (see Figure 4), did not contain detectable VC concentrations. The vertical extents of the VC-impacted groundwater have not been delineated at either plume area.
- Based on the two areas of HVOC-impacted soil (see Figure 3) and groundwater (see Figure 9), the sources of the contamination appear to be releases of PCE at the former dry cleaning machine area at the eastern portion of Suite C-102, and releases of PCE or a daughter product (cis-1,2-DCE) from the underground oil/water separator or an associated storm drain catch basin or line that are located to the northwest of Building C. Coit discontinued the use of dry cleaning solvents that contained PCE in 2007; therefore, the source of the HVOC-impacted soil and groundwater at the former dry cleaning machine area is no longer present at the Subject Property. Coit's previous use of PCE at the Subject Property may have been the source of the HVOC-impacted soil and groundwater at the oil/water separator area; however, we need to obtain more information about the floor drain system at the property and the drainage pathways to the separator.
- Based on the lack of detectable HVOCs in the soil samples from boring SB-5, which was located within the former Wincraft print washing area, and the low HVOC concentrations in the groundwater samples from downgradient well MW-3, it does not appear that the former Wincraft print washing operations in Suite C-101 were a source of HVOC-impacted soil or groundwater.
- During the first three quarterly groundwater monitoring events in 2022, there were three groundwater monitoring wells at the Site and the shallow groundwater flow direction was consistently to the northwest, towards the Sammamish River. After installing six additional groundwater monitoring wells at the Subject Property area in January 2023, the general flow direction of the shallow groundwater was to the east-northeast (also towards the river).
- From April 2022 through January 2023, the groundwater table seasonally fluctuated up to 2.51 to 2.94 feet in wells MW-1, MW-2, and MW-3. At MW-1 and MW-2, which contained VC concentrations greater than the MTCA Method A cleanup level during two

of the four quarterly monitoring events, the groundwater concentrations appear to have been affected by the groundwater elevations at the wells. At MW-1, the VC concentrations were greater during periods of shallower groundwater elevations, but at MW-2, the VC concentrations were greater during periods of deeper groundwater elevations.

- The indoor air sample analytical results from this investigation, as well as from the December 2021 sampling event, showed that none of the samples contained any analytes at concentrations above either the MRLs or the MTCA Method B indoor air cleanup levels. Therefore, there do not appear to be any seasonal effects on the indoor air quality within smaller spaces in Building C, and the potential risks associated with intrusion of HVOC-impacted vapors into the building are low.
- Based on the presence of cis-1,2-DCE and VC in the soil and that VC is the only groundwater COC, RDC and natural attenuation of the HVOCs are occurring in the soil and groundwater at the Site.
- A potentially complete HVOC contaminant exposure pathway for human receptors is not currently present at the Site. Potential future exposure pathways include direct contact (ingestion, dermal contact, and inhalation) with the HVOC-impacted soil and groundwater.
- Enhanced RDC (Alternative 1) is the recommended remediation alternative for the Site; however, pilot testing is required to evaluate the effectiveness of the injected emulsified soybean oil and bioaugmentation solution, and the radius of injection influence.

## 7. REFERENCES

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AECOM. 2019. *Phase II Environmental Site Assessment, Woodinville West Business Park, Building C, 16750 Redmond-Woodinville Road Northeast, Woodinville, Washington*. December 16.

CODA Consulting Group. 2021. *Phase II Indoor Air Quality and Subsurface Assessment, Industrial Building, 16750 Woodinville Redmond Road, Woodinville, WA*. December 29.

United States Environmental Protection Agency. 1989. *Risk Assessment Guidance for Superfund, Volume 1, Human Health Evaluation Manual (Part A). Interim Final*. Office of Emergency and Remedial Response. Washington D.C. EPA/540/1-89/002. July.

## LIMITATIONS

The services described in this work product were performed in accordance with generally accepted professional consulting principles and practices. No other representations or warranties, expressed or implied, are made. These services were performed consistent with our agreement with our client. This work product is intended solely for the use and information of our client unless otherwise noted. Any reliance on this work product by a third party is at such party's sole risk.

Opinions and recommendations contained in this work product are based on conditions that existed at the time the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. The data reported and the findings, observations, and conclusions expressed are limited by the scope of work. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this work product.

The purpose of an environmental assessment is to reasonably evaluate the potential for, or actual impact of, past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an appropriate level of analysis for each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation can be thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, practical limitations, and cost of the work performed.

Environmental conditions that are not apparent may exist at the site. Our professional opinions are based in part on interpretation of data from a limited number of discrete sampling locations and therefore may not be representative of the actual overall site environmental conditions.

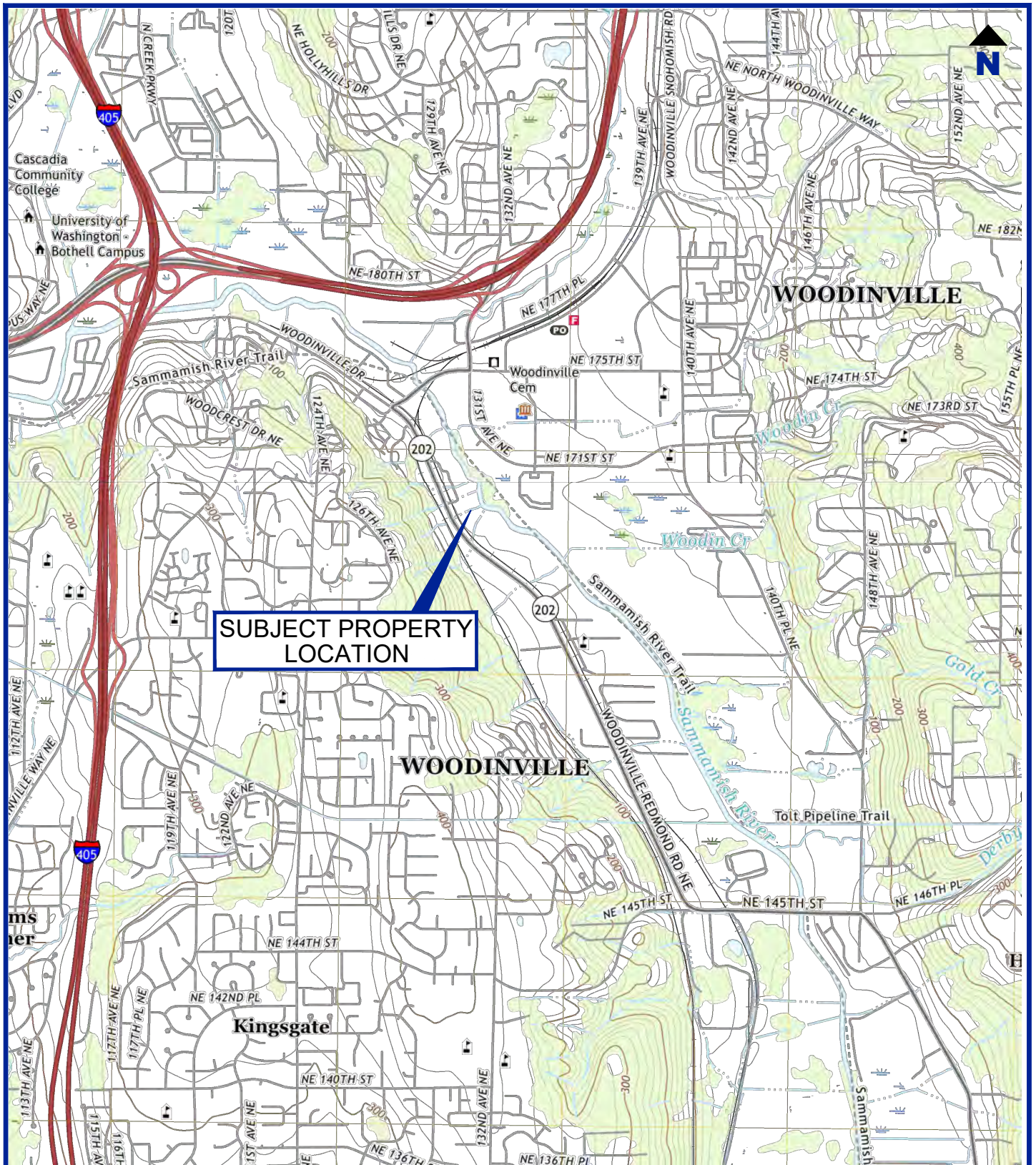
The passage of time, manifestation of latent conditions, or occurrence of future events may require further study at the site, analysis of the data, and/or reevaluation of the findings, observations, and conclusions in the work product.

This work product presents professional opinions and findings of a scientific and technical nature. The work product shall not be construed to offer legal opinion or representations as to the requirements of, nor the compliance with, environmental laws rules, regulations, or policies of federal, state or local governmental agencies.

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## FIGURES

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**SUBJECT PROPERTY  
LOCATION**

REFERENCED FROM : USGS 7.5 MINUTE QUADRANGLE  
<BOTHELL, WA 2020>  
<KIRKLAND, WA 2020>

0 2,000 4,000 6,000'

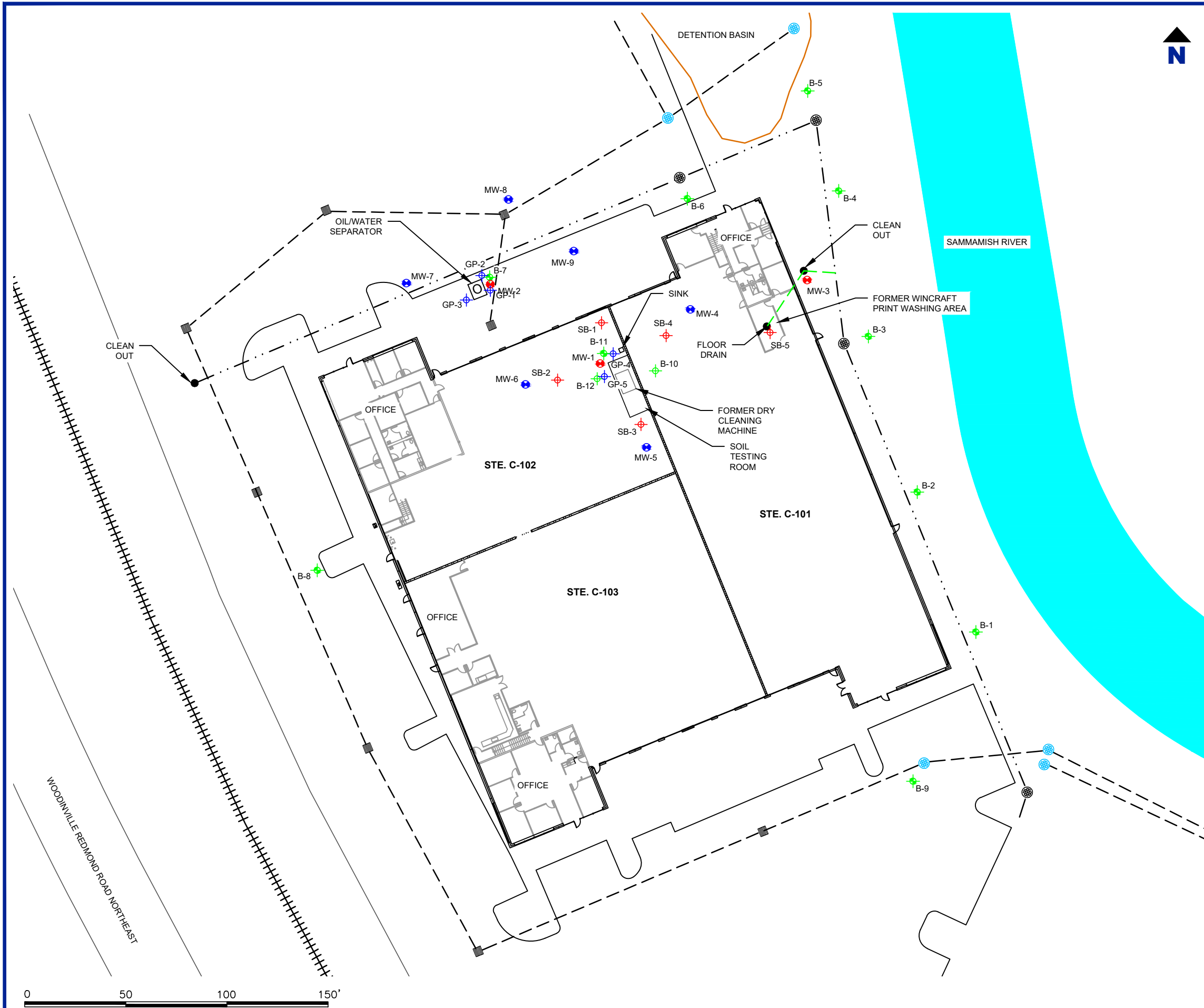


**BUILDING C**  
**WOODINVILLE WEST BUSINESS PARK**  
**16750 WOODINVILLE REDMOND RD. NE**  
**WOODINVILLE, WASHINGTON**

Drawing  
**SUBJECT PROPERTY LOCATION MAP**

Date	February 20, 2023	Scale	AS SHOWN	Fig. No.
File Name	Woodinville CD RI Workplan	Project No.	101.20841.00001	1

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NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

LEGEND

SB-1		APRIL 2022 SOIL BORING LOCATION AND DESIGNATION
MW-1		APRIL 2022 MONITORING WELL LOCATION AND DESIGNATION
MW-6		JANUARY 2023 MONITORING WELL LOCATION AND DESIGNATION
GP-1		2019 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
B-1		2021 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
B-10		2021 SOIL BORING LOCATION AND DESIGNATION
		UNDERGROUND OIL/WATER SEPARATOR
		STORM DRAIN MANHOLE
		STORM DRAIN LINE
		STORMWATER CATCH BASIN
		SANITARY SEWER MANHOLE
		SANITARY SEWER LINE
		SIDE SEWER/DRAIN LINE
		RAILROAD TRACKS

BUILDING C  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

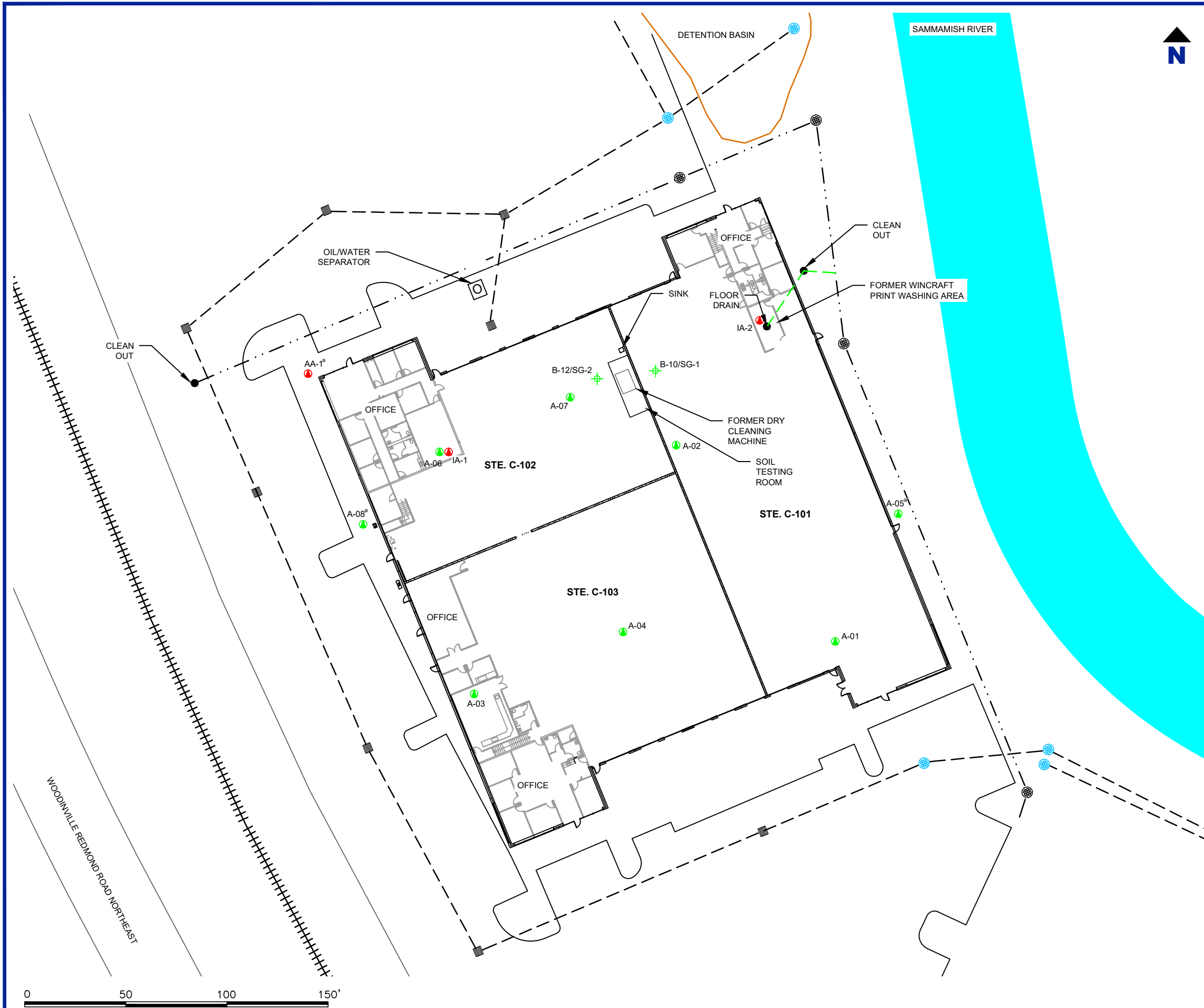
Drawing

SOIL AND GROUNDWATER INVESTIGATION  
LOCATIONS

Date	February 27, 2023	Scale	AS SHOWN	Drawing No.	2
File Name	01-02	Project No.	101.20841.00001		



Drawing path: N:\Bothell\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\01-03.dwg



#### NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.
- 3) \* = BACKGROUND AMBIENT AIR SAMPLE LOCATION

#### LEGEND

IA-1		2022 INDOOR AIR SAMPLE LOCATION AND DESIGNATION
A-01		2021 INDOOR AIR SAMPLE LOCATION AND DESIGNATION
B-10/SG-1		2021 SOIL BORING AND SOIL VAPOR SAMPLE LOCATION AND DESIGNATION
		UNDERGROUND OIL/WATER SEPARATOR
		STORM DRAIN MANHOLE
		STORM DRAIN LINE
		STORMWATER CATCH BASIN
		SANITARY SEWER MANHOLE
		SANITARY SEWER LINE
		SIDE SEWER/DRAIN LINE
		RAILROAD TRACKS

**BUILDING C**  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

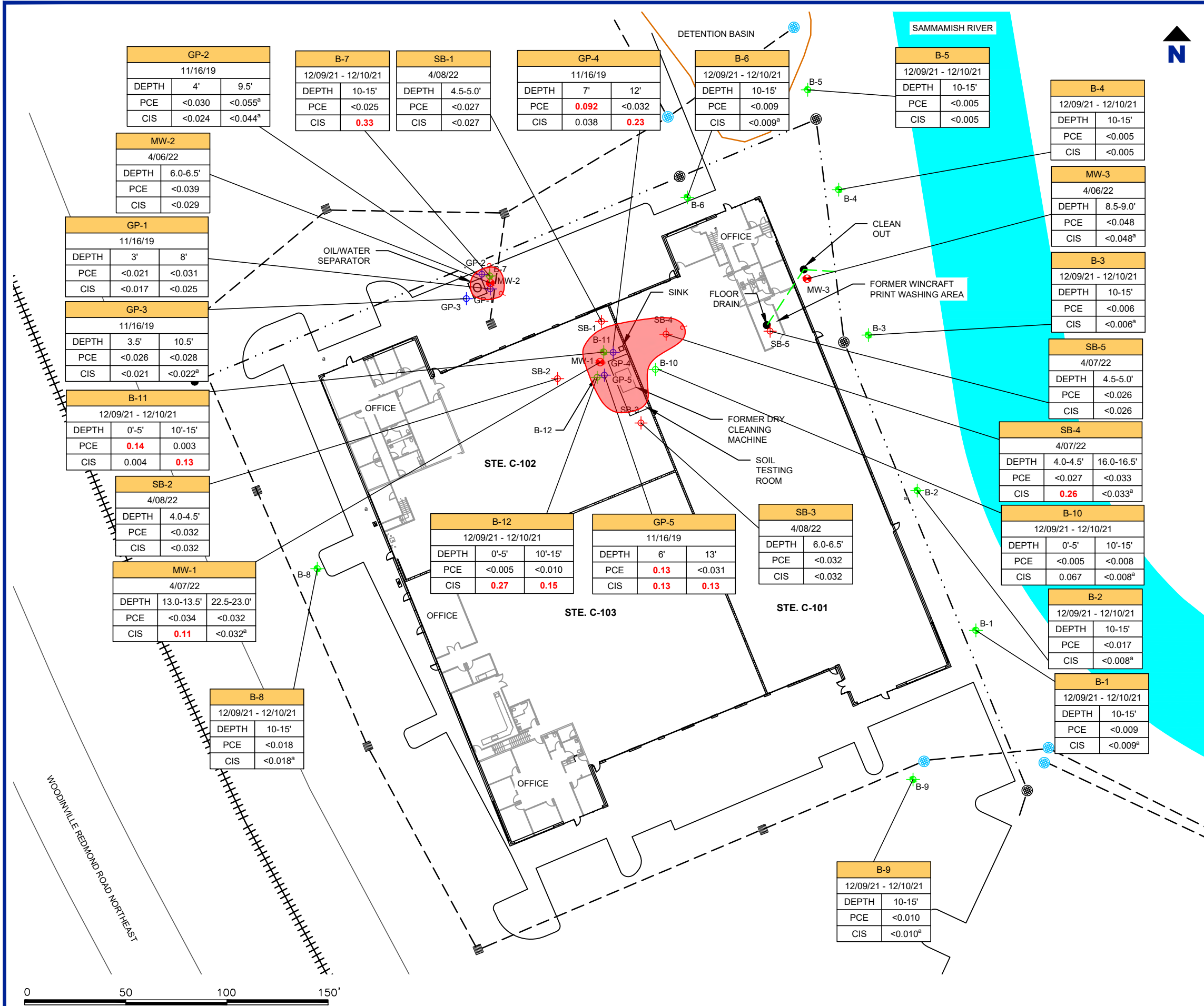
Drawing

#### INDOOR AIR AND SOIL VAPOR SAMPLE LOCATIONS

Date	February 17, 2023	Scale	AS SHOWN	Drawing No.	3
File Name	01-03	Project No.	101.20841.00001		



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NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.
- 3) RESULTS ARE IN MILLIGRAMS PER KILOGRAM (mg/kg).
- 4) VALUES IN **RED** EXCEED MTCA METHOD A OR METHOD B CLEANUP LEVELS.
- 5) PCE = TETRACHLOROETHENE
- 6) CIS = CIS-1,2-DICHLOROETHENE
- 7) <sup>a</sup> = THE ANALYTE WAS NOT DETECTED AT A CONCENTRATION GREATER THAN THE METHOD REPORTING (MRL); HOWEVER, THE MRL EXCEEDED THE MTCA METHOD A OR METHOD B CLEANUP LEVEL.

LEGEND

- SB-1 2022 SOIL BORING LOCATION AND DESIGNATION
- MW-1 2022 MONITORING WELL LOCATION AND DESIGNATION
- GP-1 2019 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
- B-1 2021 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
- B-10 2021 SOIL BORING LOCATION AND DESIGNATION
- UNDERGROUND OIL/WATER SEPARATOR
- STORM DRAIN MANHOLE
- STORM DRAIN LINE
- STORMWATER CATCH BASIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER LINE
- SIDE SEWER/DRAIN LINE
- RAILROAD TRACKS
- ESTIMATED AREA OF HVOC-IMPACTED SOIL

		B-11					
SAMPLE DESIGNATION		12/09/21 - 12/10/21				SAMPLE DATE	
		DEPTH	0'-5'	10'-15'			
APPROXIMATE SAMPLE DEPTH		PCE	0.14	0.003			
ANALYTE		CIS	0.004	0.13			CONCENTRATION (IN mg/kg)

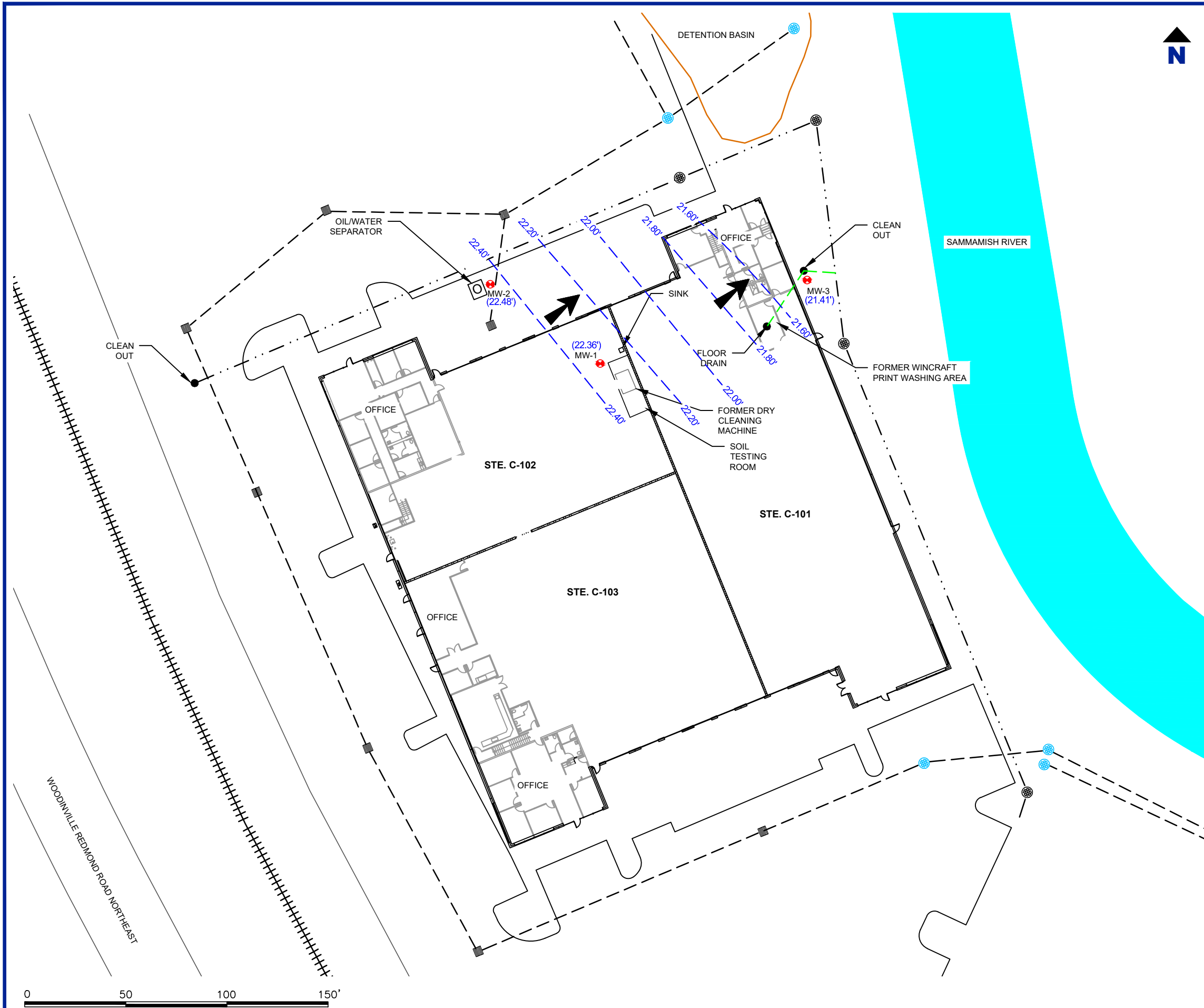
BUILDING C  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

Drawing  
SOIL SAMPLE ANALYTICAL RESULTS - PCE AND CIS-1,2-DICHLOROETHENE

Date	February 27, 2023	Scale	AS SHOWN	Drawing No.
File Name	01-04	Project No.	101.20841.00001	4



Drawing path: N:\Bohelli\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\01-05.dwg



NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

LEGEND

- |          |   |
|----------|---|
| MW-1     | 2022 MONITORING WELL LOCATION AND DESIGNATION                                 |
|          | UNDERGROUND OIL/WATER SEPARATOR   |
|          | STORM DRAIN MANHOLE   |
|          | STORM DRAIN LINE  |
|          | STORMWATER CATCH BASIN  |
|          | SANITARY SEWER MANHOLE  |
|          | SANITARY SEWER LINE   |
|          | SIDE SEWER/DRAIN LINE   |
|          | RAILROAD TRACKS   |
| (22.48') | SHALLOW GROUNDWATER ELEVATION (IN FEET ABOVE NAVD 88 DATUM) ON APRIL 12, 2022 |
| 21.60'   | INFERRED GROUNDWATER ELEVATION CONTOUR LINE (IN FEET ABOVE NAVD 88 DATUM)     |
|          | INFERRED GROUNDWATER FLOW DIRECTION   |

BUILDING C  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

Drawing

SHALLOW GROUNDWATER ELEVATION  
CONTOUR MAP - APRIL 12, 2022

Date February 23, 2023

Scale AS SHOWN

Drawing No.

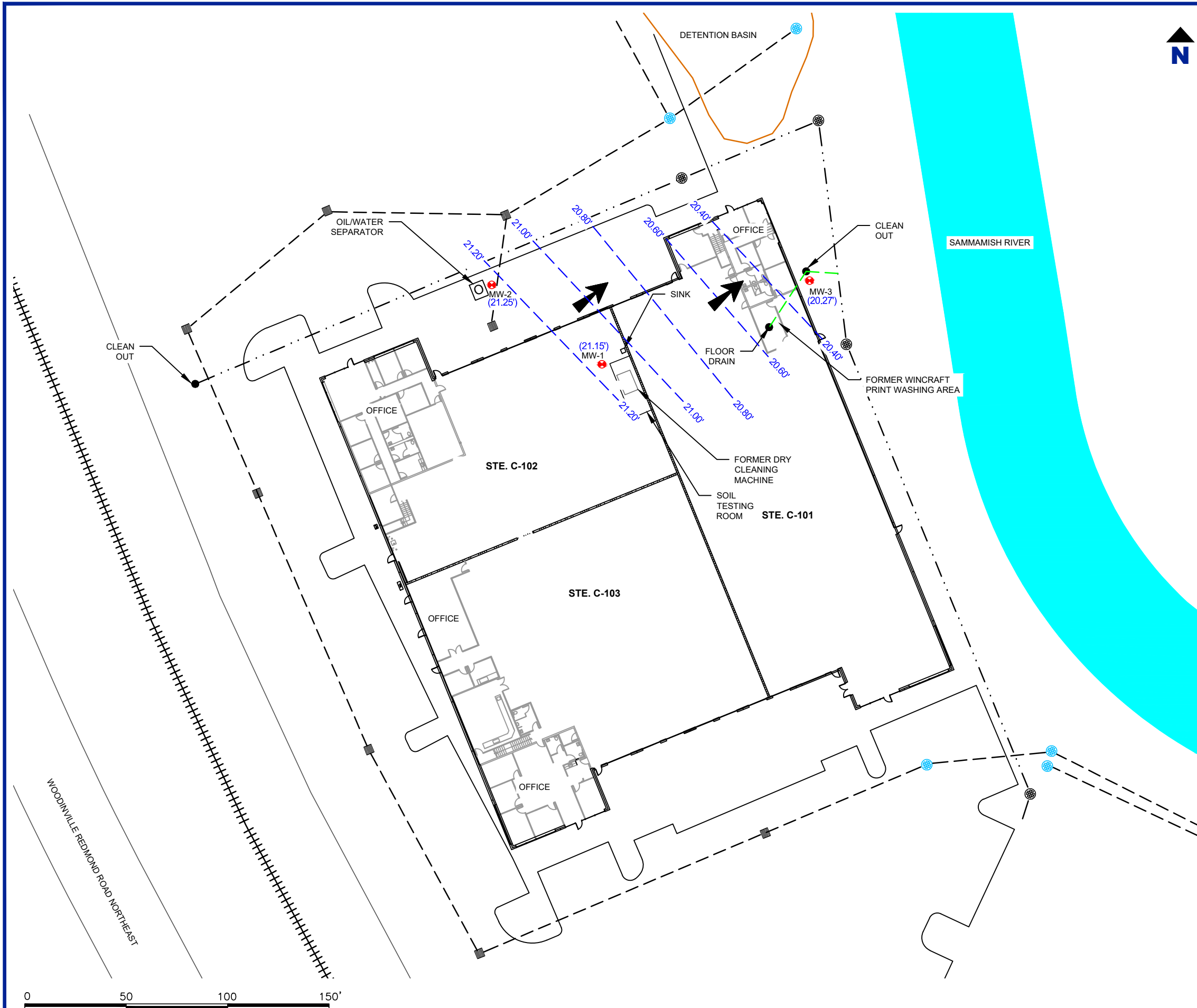
File Name 01-05

Project No. 101.20841.00001

5



Drawing path: N:\Bothell\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\01-06.dwg



#### NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

#### LEGEND

- |                |  |
|----------------|--|
| MW-1           | 2022 MONITORING WELL LOCATION AND DESIGNATION                                |
|                | UNDERGROUND OIL/WATER SEPARATOR  |
|                | STORM DRAIN MANHOLE  |
|                | STORM DRAIN LINE   |
|                | STORMWATER CATCH BASIN   |
|                | SANITARY SEWER MANHOLE   |
|                | SANITARY SEWER LINE  |
|                | SIDE SEWER/DRAIN LINE  |
|                | RAILROAD TRACKS  |
| (21.25')       | SHALLOW GROUNDWATER ELEVATION (IN FEET ABOVE NAVD 88 DATUM) ON JULY 12, 2022 |
| 20.40' - - - - | INFERRED GROUNDWATER ELEVATION CONTOUR LINE (IN FEET ABOVE NAVD 88 DATUM)    |
|                | INFERRED GROUNDWATER FLOW DIRECTION  |

**BUILDING C**  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

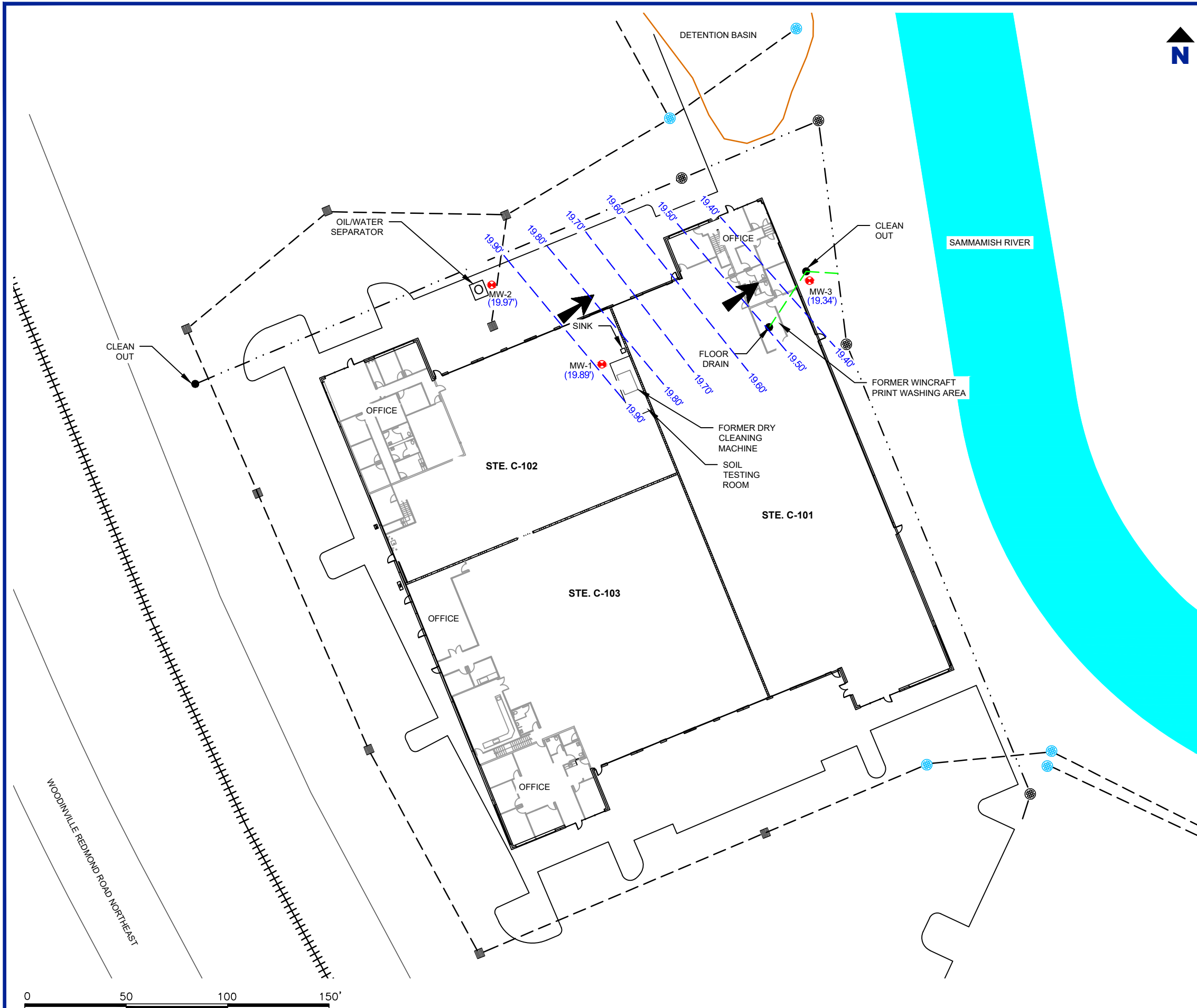
Drawing

**SHALLOW GROUNDWATER ELEVATION  
CONTOUR MAP - JULY 12, 2022**

Date	February 23, 2023	Scale	AS SHOWN	Drawing No.
File Name	01-06	Project No.	101.20841.00001	6



Drawing path: N:\Bohelli\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\01-07.dwg



#### NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

#### LEGEND

MW-1	2022 MONITORING WELL LOCATION AND DESIGNATION
	UNDERGROUND OIL/WATER SEPARATOR
	STORM DRAIN MANHOLE
	STORM DRAIN LINE
	STORMWATER CATCH BASIN
	SANITARY SEWER MANHOLE
	SANITARY SEWER LINE
	SIDE SEWER/DRAIN LINE
	RAILROAD TRACKS
(19.34')	SHALLOW GROUNDWATER ELEVATION (IN FEET ABOVE NAVD 88 DATUM) ON OCTOBER 12, 2022
19.40' - - - - -	INFERRED GROUNDWATER ELEVATION CONTOUR LINE (IN FEET ABOVE NAVD 88 DATUM)
	INFERRED GROUNDWATER FLOW DIRECTION

BUILDING C  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

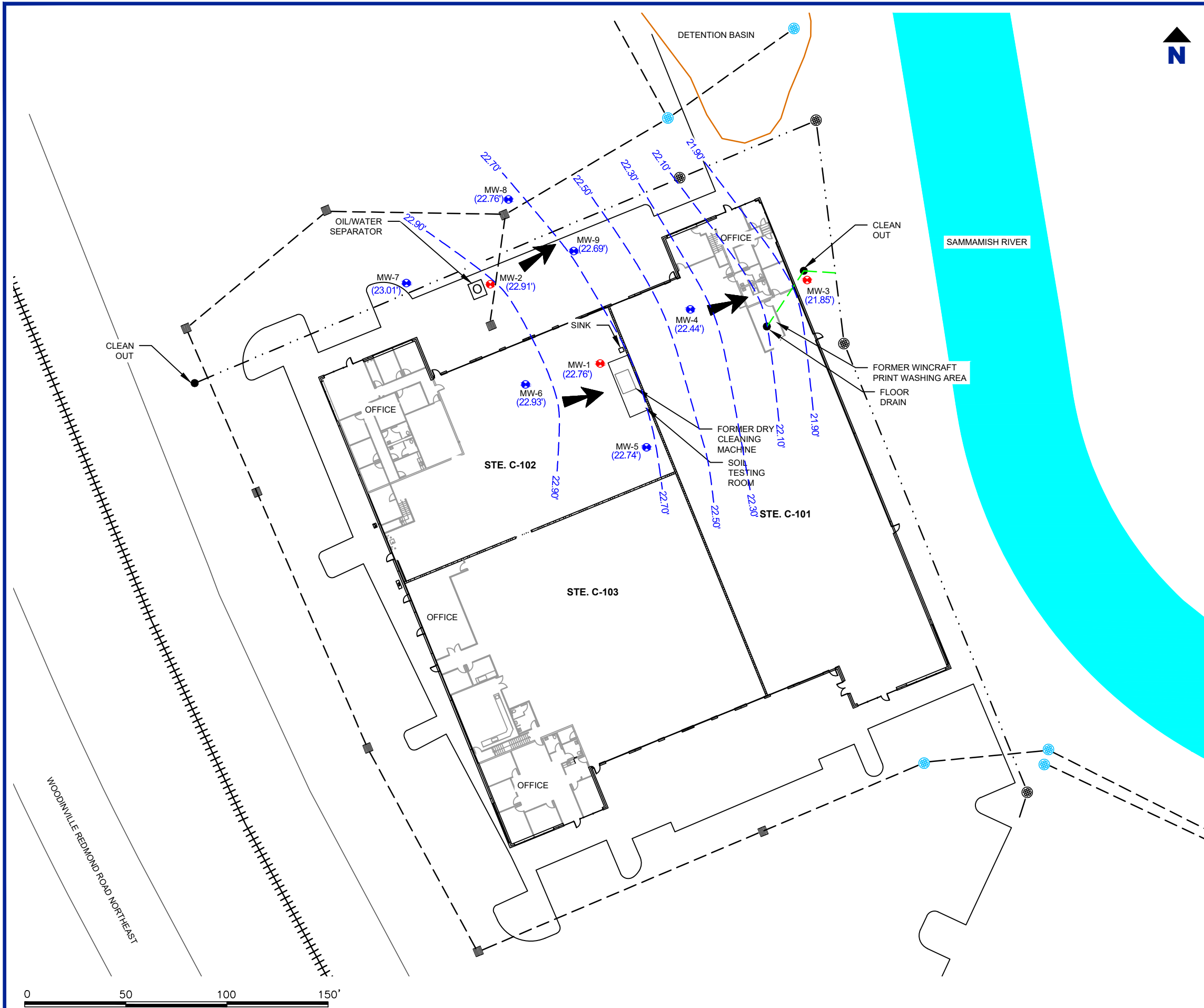
Drawing

SHALLOW GROUNDWATER ELEVATION  
CONTOUR MAP - OCTOBER 12, 2022

Date	February 23, 2023	Scale	AS SHOWN	Drawing No.	7
File Name	01-07	Project No.	101.20841.00001		



Drawing path: N:\Bohelli\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\01-08.dwg



NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

LEGEND

- |                  |  |
|------------------|--|
| MW-1             | 2022 MONITORING WELL LOCATION AND DESIGNATION                                  |
| MW-6             | 2023 MONITORING WELL LOCATION AND DESIGNATION                                  |
|                  | UNDERGROUND OIL/WATER SEPARATOR  |
|                  | STORM DRAIN MANHOLE  |
|                  | STORM DRAIN LINE   |
|                  | STORMWATER CATCH BASIN   |
|                  | SANITARY SEWER MANHOLE   |
|                  | SANITARY SEWER LINE  |
|                  | SIDE SEWER/DRAIN LINE  |
|                  | RAILROAD TRACKS  |
| (22.91')         | SHALLOW GROUNDWATER ELEVATION (IN FEET ABOVE NAVD 88 DATUM) ON JANUARY 9, 2023 |
| 22.90' - - - - - | INFERRED GROUNDWATER ELEVATION CONTOUR LINE (IN FEET ABOVE NAVD 88 DATUM)      |
|                  | INFERRED GROUNDWATER FLOW DIRECTION  |

BUILDING C  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

Drawing

SHALLOW GROUNDWATER ELEVATION  
CONTOUR MAP - JANUARY 9, 2023

Date February 23, 2023

Scale AS SHOWN

Drawing No.

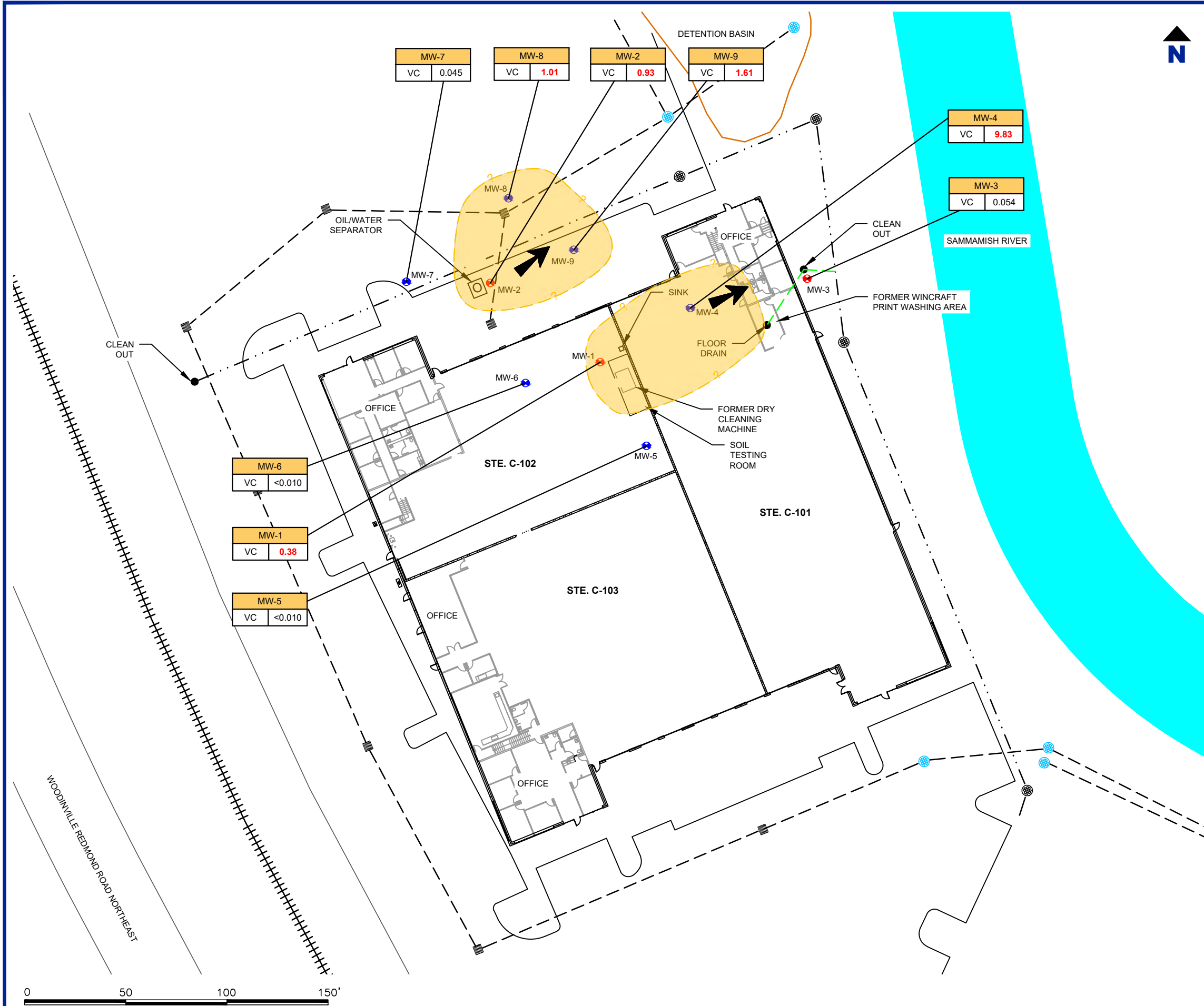
File Name 01-08

Project No. 101.20841.00001

8



Drawing path: N:\Bothell\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\2023\01-09.dwg



**NOTES**

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.
- 3) GROUNDWATER SAMPLES WERE ONLY COLLECTED FROM WELLS MW-1, MW-2, AND MW-3 DURING 2022.
- 4) VALUES IN THE RED EXCEED THE MTCA METHOD A CLEANUP LEVEL (0.20 µg/L).
- 5) VC = VINYL CHLORIDE
- 6) µg/L = MICROGRAMS PER LITER

**LEGEND**

- MW-1 2022 MONITORING WELL LOCATION AND DESIGNATION
- MW-6 2023 MONITORING WELL LOCATION AND DESIGNATION
- General Groundwater Flow Direction
- Underground Oil/Water Separator
- Storm Drain Manhole
- Storm Drain Line
- Stormwater Catch Basin
- Sanitary Sewer Manhole
- Sanitary Sewer Line
- Side Sewer/Drain Line
- Railroad Tracks
- Estimated Extents of Vinyl Chloride-Impacted Groundwater

**WELL NUMBER** **ANALYTE** **CONCENTRATION (IN µg/L)**

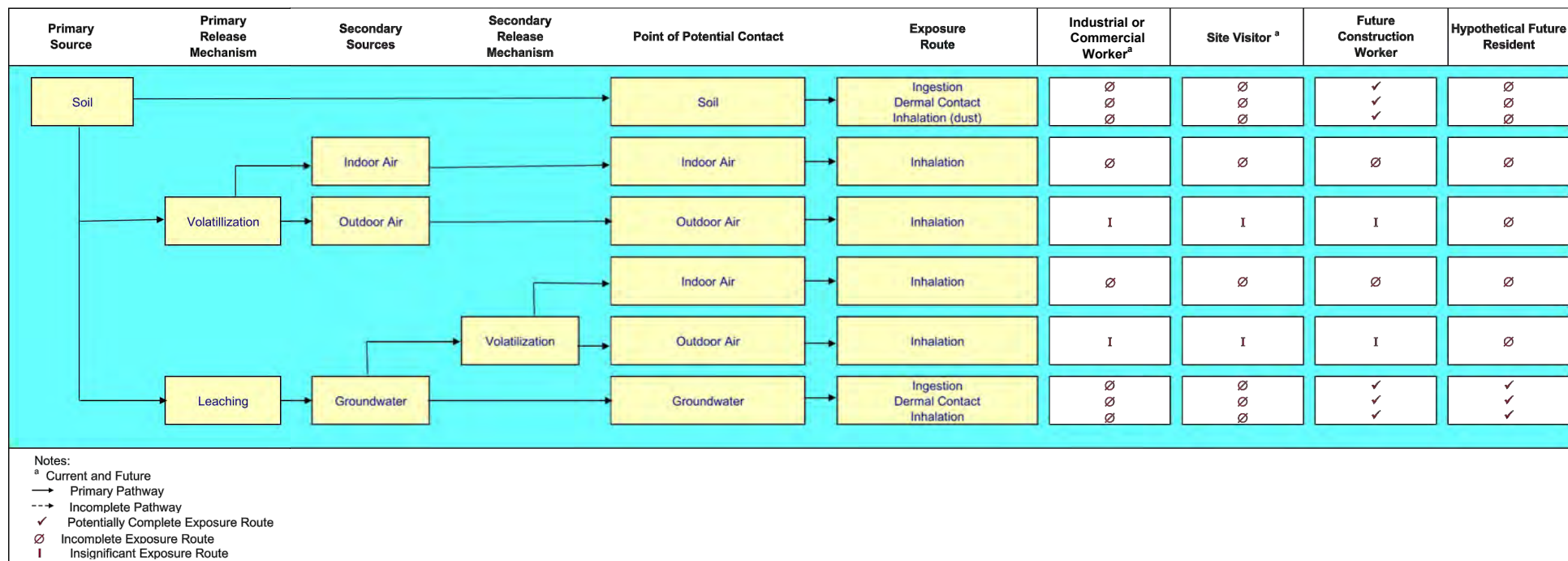
Well	VC	Concentration (µg/L)
MW-1	VC	0.38

**BUILDING C**  
WOODINVILLE WEST BUSINESS PARK  
16750 WOODINVILLE REDMOND RD. NE  
WOODINVILLE, WASHINGTON

Drawing  
**MAXIMUM VINYL CHLORIDE CONCENTRATIONS  
IN GROUNDWATER 2022 AND 2023 SAMPLES**

Date	February 23, 2023	Scale	AS SHOWN	Drawing No.	9
File Name	01-09	Project No.	101.20841.00001		





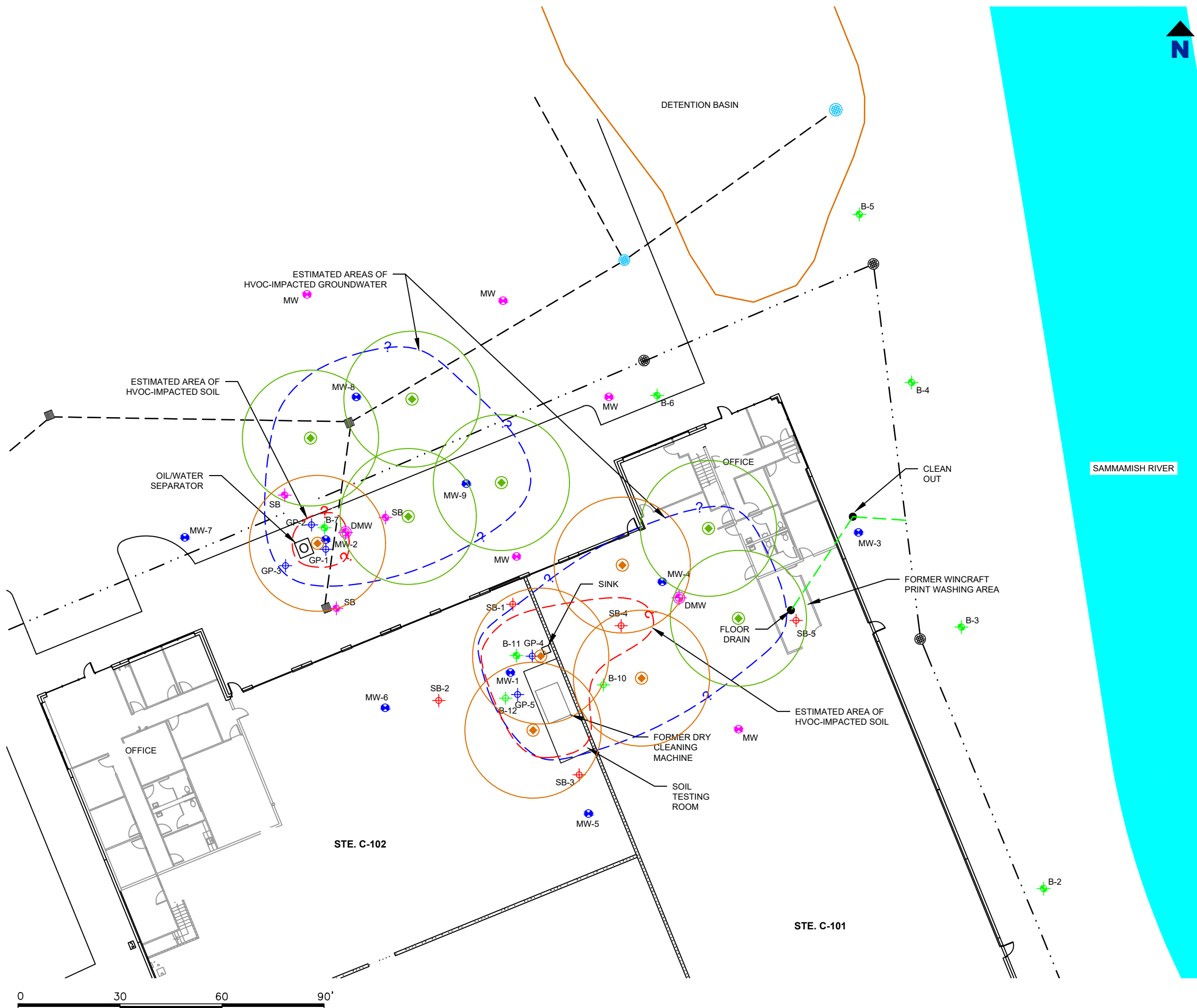
**BUILDING C**  
 WOODINVILLE WEST BUSINESS PARK  
 16750 WOODINVILLE REDMOND RD. NE  
 WOODINVILLE, WASHINGTON

Drawing  
**CONCEPTUAL SITE MODEL - HUMAN HEALTH**

Date	February 23, 2023	Scale	AS SHOWN	Drawing No.	10
File Name	01-10	Project No.	101.20841.00001		



Drawing path: N:\Bothell\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\2023\01-11.dwg



#### NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

#### LEGEND

- PROPOSED VERTICAL INJECTION POINT WITH 20' RADIUS OF INFLUENCE (SOLUTION INJECTION AT DEPTHS 2' TO 20')
- PROPOSED VERTICAL INJECTION POINT WITH 20' RADIUS OF INFLUENCE (SOLUTION INJECTION AT DEPTHS 7' TO 20')
- PROPOSED SOIL BORING LOCATION
- PROPOSED SHALLOW GROUNDWATER MONITORING WELL LOCATION
- PROPOSED DEEP GROUNDWATER MONITORING WELL LOCATION
- APRIL 2022 SOIL BORING LOCATION AND DESIGNATION
- EXISTING SHALLOW GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
- 2019 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
- 2021 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
- 2021 SOIL BORING LOCATION AND DESIGNATION
- UNDERGROUND OIL/WATER SEPARATOR
- STORM DRAIN MANHOLE
- STORM DRAIN LINE
- STORMWATER CATCH BASIN
- SANITARY SEWER MANHOLE
- SANITARY SEWER LINE
- SIDE SEWER/DRAIN LINE
- ESTIMATED AREA OF HVOC-IMPACTED SOIL
- ESTIMATED AREA OF HVOC-IMPACTED GROUNDWATER

**BUILDING C**  
**WOODINVILLE WEST BUSINESS PARK**  
**16750 WOODINVILLE REDMOND RD. NE**  
**WOODINVILLE, WASHINGTON**

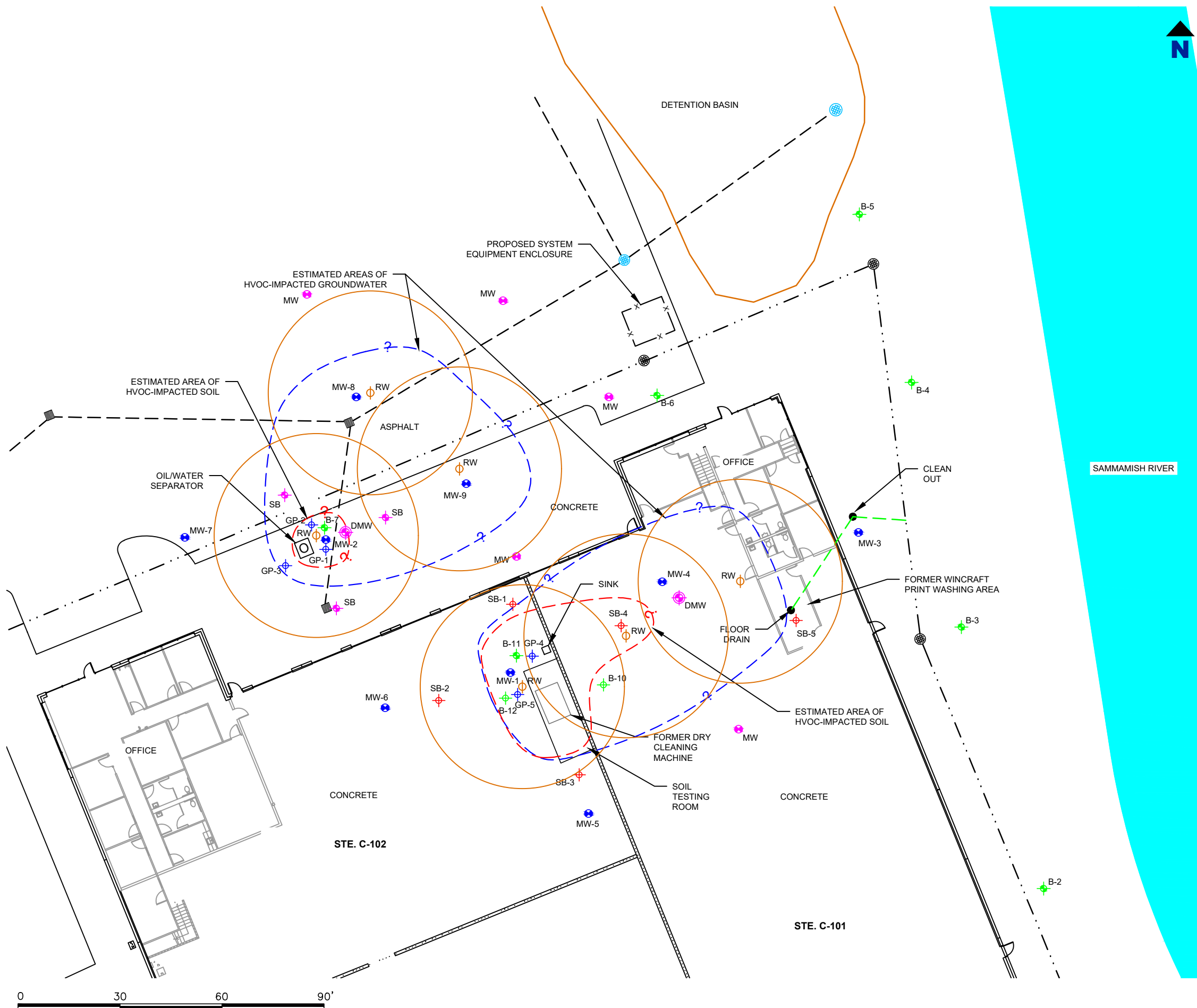
Drawing

**ALTERNATIVE 1 - ENHANCED RDC**

Date	March 3, 2023	Scale	AS SHOWN	Drawing No.	11
File Name	01-11	Project No.	101.20841.00001		



Drawing path: N:\Bothell\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\2023\01-12.dwg



#### NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

#### LEGEND

RW		PROPOSED VACUUM-ENHANCED GROUNDWATER RECOVERY WELL WITH 30' RADIUS OF INFLUENCE
SB		PROPOSED SOIL BORING LOCATION
MW		PROPOSED SHALLOW GROUNDWATER MONITORING WELL LOCATION
DMW		PROPOSED DEEP GROUNDWATER MONITORING WELL LOCATION
SB-1		APRIL 2022 SOIL BORING LOCATION AND DESIGNATION
MW-6		EXISTING SHALLOW GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
GP-1		2019 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
B-6		2021 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
B-10		2021 SOIL BORING LOCATION AND DESIGNATION
		UNDERGROUND OIL/WATER SEPARATOR
		STORM DRAIN MANHOLE
		STORM DRAIN LINE
		STORMWATER CATCH BASIN
		SANITARY SEWER MANHOLE
		SANITARY SEWER LINE
		SIDE SEWER/DRAIN LINE
		ESTIMATED AREA OF HVOC-IMPACTED SOIL
		ESTIMATED AREA OF HVOC-IMPACTED GROUNDWATER

**BUILDING C**  
**WOODINVILLE WEST BUSINESS PARK**  
**16750 WOODINVILLE REDMOND RD. NE**  
**WOODINVILLE, WASHINGTON**

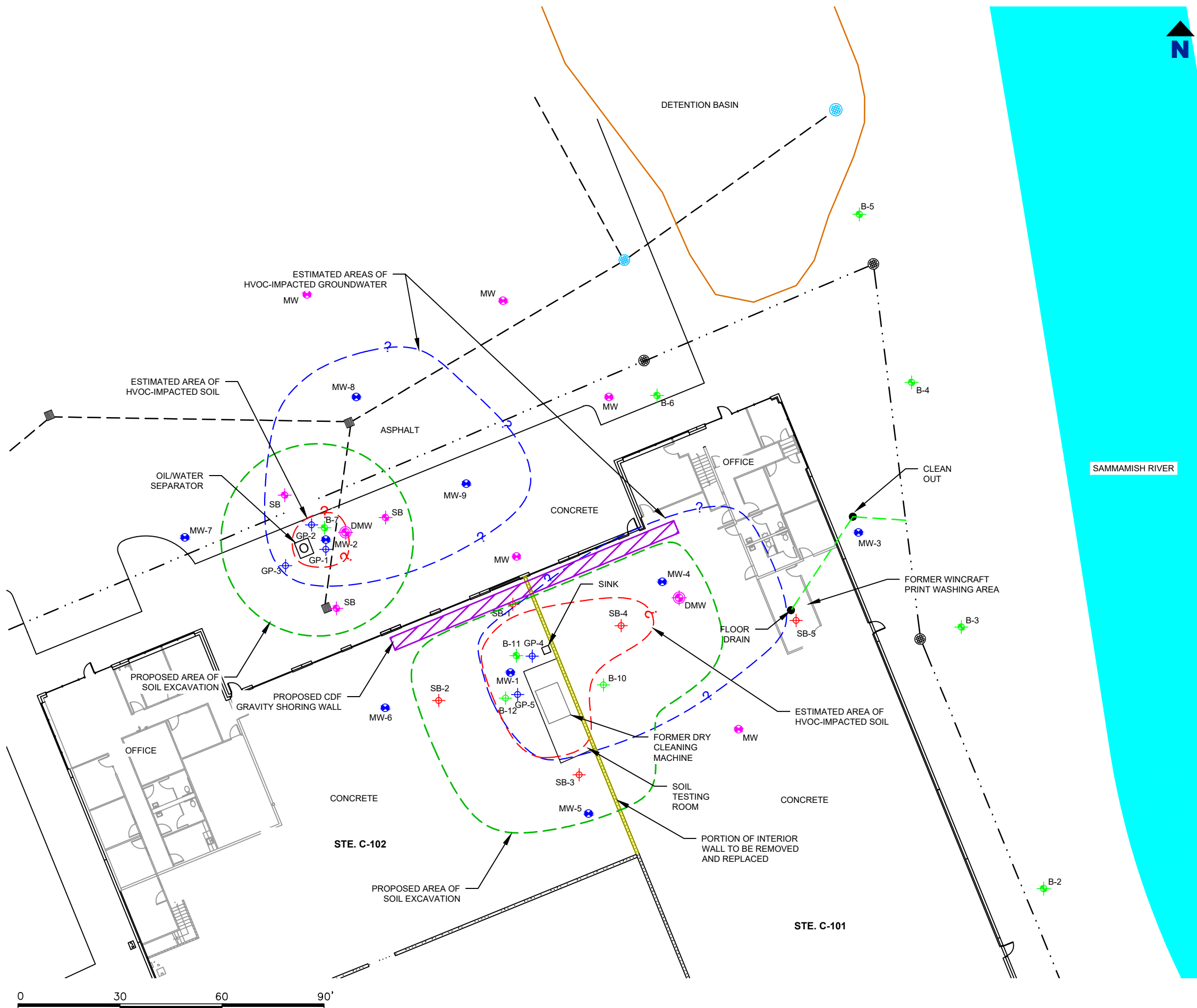
Drawing

**ALTERNATIVE 2 - VACUUM ENHANCED  
GROUNDWATER RECOVERY AND MNA**

Date	March 2, 2023	Scale	AS SHOWN	Drawing No.	12
File Name	01-12	Project No.	101.20841.00001		



Drawing path: N:\Bothell\1 PROJECTS\Fox Rothschild\Woodinville CD, LLC Project\Figures\2023\01-13.dwg



#### NOTES

- 1) BUILDING FLOOR PLAN BASED ON CODA CONSULTING GROUP'S 2021 SAMPLE PLAN.
- 2) LOCATIONS OF FEATURES ARE APPROXIMATE.

#### LEGEND

	PROPOSED AREA OF SOIL EXCAVATION
	PROPOSED SOIL BORING LOCATION
	PROPOSED SHALLOW GROUNDWATER MONITORING WELL LOCATION
	PROPOSED DEEP GROUNDWATER MONITORING WELL LOCATION
	APRIL 2022 SOIL BORING LOCATION AND DESIGNATION
	EXISTING SHALLOW GROUNDWATER MONITORING WELL LOCATION AND DESIGNATION
	2019 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
	2021 SOIL BORING AND TEMPORARY WELL LOCATION AND DESIGNATION
	2021 SOIL BORING LOCATION AND DESIGNATION
	UNDERGROUND OIL/WATER SEPARATOR
	STORM DRAIN MANHOLE
	STORM DRAIN LINE
	STORMWATER CATCH BASIN
	SANITARY SEWER MANHOLE
	SANITARY SEWER LINE
	SIDE SEWER/DRAIN LINE
	ESTIMATED AREA OF HVOC-IMPACTED SOIL
	ESTIMATED AREA OF HVOC-IMPACTED GROUNDWATER

**BUILDING C**  
**WOODINVILLE WEST BUSINESS PARK**  
**16750 WOODINVILLE REDMOND RD. NE**  
**WOODINVILLE, WASHINGTON**

Drawing

**ALTERNATIVE 3 - SOIL EXCAVATION,  
GROUNDWATER EXTRACTION, AND MNA**

Date	March 2, 2023	Scale	AS SHOWN	Drawing No.
File Name	01-13	Project No.	101.20841.00001	13



**TABLES**

Table 1  
Soil Sample Analytical Results  
Building C at Woodinville West Business Park  
Woodinville, Washington

Soil Boring Number	Sample ID	Approximate Sample Depth (feet)	Date Collected	Cis-1,2-Dichloroethene <sup>b</sup>	Toluene	2-Chlorotoluene	Acetone	Benzene	2-Butanone (MEK)	Trans-1,2-Dichloroethene	Naphthalene	Tetrachloroethene (PCE) <sup>b</sup>	Trichloroethene (TCE) <sup>b</sup>	Vinyl Chloride <sup>c</sup>	Total Xylenes <sup>b</sup>
MTCA Method A Cleanup Levels <sup>d</sup>				0.079 <sup>f</sup> /0.0052 <sup>g</sup>	7.0	1,600 <sup>e</sup>	72,000 <sup>e</sup>	0.03	48,000 <sup>e</sup>	0.52 <sup>f</sup> /0.032 <sup>g</sup>	5.0	0.05	0.03	0.0017 <sup>f</sup> /0.00009 <sup>g</sup>	9.0
2022 SLR Investigation															
SB-1	SB-1-4.5'-5.0'	4.5-5.0	04/08/22	<0.027	<0.058	<0.055	<1.10	<0.011	<0.55	<0.027	<0.11	<0.027	<0.027	<0.027 <sup>h</sup>	NA
SB-2	SB-2-4.0'-4.5'	4.0-4.5	04/08/22	<0.032	<0.063	<0.063	<1.26	<0.013	<0.63	<0.032	<0.13	<0.032	<0.032 <sup>h</sup>	<0.032 <sup>h</sup>	NA
SB-3	SB-3-6.0'-6.5'	6.0-6.5	04/08/22	<0.032	<0.063	<0.063	<1.27	<0.013	<0.63	<0.032	<0.13	<0.032	<0.032 <sup>h</sup>	<0.032 <sup>h</sup>	NA
SB-4	SB-4-4.0'-4.5'	4.0-4.5	04/07/22	0.26	<0.053	<0.053	<1.06	<0.011	<0.53	<0.027	<0.11	<0.027	<0.027	<0.027 <sup>h</sup>	NA
	SB-4-16.0'-16.5'	16.0-16.5	04/07/22	<0.033 <sup>h</sup>	<0.067	<0.067	<1.33	<0.013	<0.67	<0.033 <sup>h</sup>	<0.13	<0.033	<0.033 <sup>h</sup>	<0.033 <sup>h</sup>	NA
SB-5	SB-5-4.5'-5.0'	4.5-5.0	04/07/22	<0.026	<0.052	<0.052	<1.03	<0.010	<0.52	<0.026	<0.10	<0.026	<0.026	<0.026 <sup>h</sup>	NA
MW-1	MW-1-13.0'-13.5'	13.0-13.5	04/07/22	0.11	<0.069	<0.069	<1.37	<0.014	<0.69	<0.034 <sup>h</sup>	<0.14	<0.034	<0.034 <sup>h</sup>	<0.034 <sup>h</sup>	NA
	MW-1-22.5'-23.0'	22.5-23.0	04/07/22	<0.032 <sup>h</sup>	<0.063	<0.063	<1.26	<0.013	<0.63	<0.032	<0.13	<0.032	<0.032 <sup>h</sup>	<0.032 <sup>h</sup>	NA
MW-2	MW-2-6.0'-6.5'	6.0-6.5	04/06/22	<0.039	<0.077	<0.077	<1.54	<0.015	<0.77	<0.039	<0.15	<0.039	<0.039 <sup>h</sup>	<0.039 <sup>h</sup>	NA
MW-3	MW-3-8.5'-9.0'	8.5-9.0	04/06/22	<0.048 <sup>h</sup>	<0.096	<0.096	<1.93	<0.019	<0.96	<0.048 <sup>h</sup>	<0.19	<0.048	<0.048 <sup>h</sup>	<0.048 <sup>h</sup>	NA
2021 CODA Assessment															
B-1	B1	10-15	12/09/21	<0.009 <sup>h</sup>	<0.017	<0.009	0.17	<0.003	0.37	<0.017	<0.043	<0.009	<0.003	<0.009 <sup>h</sup>	<0.022
B-2	B2	10-15	12/09/21	<0.017 <sup>h</sup>	<0.033	<0.017	<0.33	<0.007	0.56	<0.033 <sup>h</sup>	<0.084	<0.017	<0.007	<0.017 <sup>h</sup>	<0.044
B-3	B3	10-15	12/09/21	<0.006 <sup>h</sup>	<0.011	<0.006	<0.11	<0.002	<0.22	<0.011	<0.028	<0.006	<0.002	<0.006 <sup>h</sup>	<0.015
B-4	B4	10-15	12/09/21	<0.005	<0.011	<0.005	<0.11	<0.002	<0.21	<0.011	<0.026	<0.005	<0.002	<0.005 <sup>h</sup>	<0.014
B-5	B5	10-15	12/09/21	<0.005	<0.010	<0.005	<0.10	<0.002	0.17	<0.010	<0.025	<0.005	<0.002	<0.005 <sup>h</sup>	<0.013
B-6	B6	10-15	12/09/21	<0.009 <sup>h</sup>	<0.018	<0.009	<0.18	<0.004	0.36	<0.018	<0.044	<0.009	<0.004	<0.009 <sup>h</sup>	<0.023
B-7	B7	10-15	12/09/21	0.33	0.017	<0.025	0.77	0.011	1.30	<0.050 <sup>h</sup>	<0.12	<0.025	<0.010	<0.025 <sup>h</sup>	<0.064
B-8	B8	10-15	12/09/21	<0.018 <sup>h</sup>	<0.035	<0.018	0.36	<0.007	<0.71	<0.035 <sup>h</sup>	<0.089	<0.018	<0.007	<0.018 <sup>h</sup>	<0.046
B-9	B9	10-15	12/09/21	<0.010 <sup>h</sup>	<0.021	<0.010	0.18	<0.004	0.48	<0.021	<0.052	<0.010	<0.004	<0.010 <sup>h</sup>	<0.027
B-10	B10-1	0-5	11/30/21	0.067	0.015	<0.005	<0.10	<0.002	<0.21	0.004	0.013	<0.005	<0.002	<0.005 <sup>h</sup>	0.002
	B10-2	10-15	11/30/21	<0.008 <sup>h</sup>	<0.016	<0.008	0.15	<0.003	0.35	<0.016	<0.040	<0.008	<0.003	<0.008 <sup>h</sup>	<0.021
B-11	B11-1	0-5	12/10/21	0.004	<0.008	<0.004	<0.080	<0.002	<0.16	<0.008	<0.020	0.14	0.005	<0.004 <sup>h</sup>	<0.010
	B11-2	10-15	12/10/21	0.13	0.003	<0.005	<0.091	<0.002	<0.18	0.003	<0.023	0.003	<0.002	0.007	<0.012
B-12	B12-1	0-5	12/10/21	0.27	0.009	<0.005	<0.092	<0.002	<0.18	0.014	0.01	<0.005	<0.002	<0.005 <sup>h</sup>	0.003
	B12-2	10-15	12/10/21	0.15	0.014	<0.010	0.17	<0.004	0.42	0.009	<0.049	<0.010	<0.004	<0.010 <sup>h</sup>	<0.025

Table 1  
Soil Sample Analytical Results  
Building C at Woodinville West Business Park  
Woodinville, Washington

Soil Boring Number	Sample ID	Approximate Sample Depth (feet)	Date Collected	Cis-1,2-Dichloroethene <sup>b</sup>	Toluene	2-Chlorotoluene	Acetone	Benzene	2-Butanone (MEK)	Trans-1,2-Dichloroethene	Naphthalene	Tetrachloroethene (PCE) <sup>b</sup>	Trichloroethene (TCE) <sup>b</sup>	Vinyl Chloride <sup>c</sup>	Total Xylenes <sup>b</sup>
MTCA Method A Cleanup Levels <sup>d</sup>				0.079 <sup>f</sup> /0.0052 <sup>g</sup>	7.0	1,600 <sup>e</sup>	72,000 <sup>e</sup>	0.03	48,000 <sup>e</sup>	0.52 <sup>f</sup> /0.032 <sup>g</sup>	5.0	0.05	0.03	0.0017 <sup>f</sup> /0.00009 <sup>g</sup>	9.0
2019 AECOM Assessment															
GP-1	GP-1-3	3	11/16/19	<0.017	NA	<0.021	NA	NA	NA	<0.017	NA	<0.021	<0.017	<0.021 <sup>h</sup>	NA
	GP-1-8	8	11/16/19	<0.025	NA	<0.031	NA	NA	NA	<0.025	NA	<0.031	<0.025	<0.031 <sup>h</sup>	NA
GP-2	GP-2-4	4	11/16/19	<0.024	NA	<0.030	NA	NA	NA	<0.024	NA	<0.030	<0.024	<0.030 <sup>h</sup>	NA
	GP-2-9.5	9.5	11/16/19	<0.044 <sup>h</sup>	NA	0.12	NA	NA	NA	<0.044 <sup>h</sup>	NA	<0.055 <sup>h</sup>	<0.044 <sup>h</sup>	<0.055 <sup>h</sup>	NA
GP-3	GP-3-3.5	3.5	11/16/19	<0.021	NA	<0.026	NA	NA	NA	<0.021	NA	<0.026	<0.021	<0.026 <sup>h</sup>	NA
	GP-3-10.5	10.5	11/16/19	<0.022 <sup>h</sup>	NA	<0.028	NA	NA	NA	<0.022	NA	<0.028	<0.022	<0.028 <sup>h</sup>	NA
GP-4	GP-4-7	7	11/16/19	0.038	NA	<0.028	NA	NA	NA	<0.023	NA	0.092	<0.023	<0.028 <sup>h</sup>	NA
	GP-4-12	12	11/16/19	0.23	NA	<0.032	NA	NA	NA	<0.026	NA	<0.032	<0.026	<0.032 <sup>h</sup>	NA
GP-5	GP-5-6	6	11/16/19	0.13	NA	<0.032	NA	NA	NA	<0.025	NA	0.13	<0.025	<0.032 <sup>h</sup>	NA
	GP-5-13	13	11/16/19	0.13	NA	<0.031	NA	NA	NA	<0.025	NA	<0.031	<0.025	<0.031 <sup>h</sup>	NA
<b>Notes:</b> <p>This table only includes the analytes that were detected in at least one soil sample and have MTCA Method A or Method B soil cleanup levels. All values in milligrams per kilogram (mg/kg). Values in <b>red</b> represent concentrations above MTCA Method A or Method B cleanup levels. Based on the 2022 and 2023 groundwater monitoring data, the vadose zone beneath the subject property area extends to a depth of approximately 8.7 feet below ground surface (bgs). NA = Not Analyzed J = Estimated result. The laboratory stated that the result was detected below the lowest point of the calibration curve, but above the specified method detection limit (MDL). <sup>a</sup> Gasoline-range organics by Ecology Method NWTPH-Gx. <sup>b</sup> Volatile organic compounds (VOCs) by EPA Method 8260C or 8260 D. <sup>c</sup> Analyzed by EPA Method 8260C SIM or 8260D SIM. <sup>d</sup> Chapter 173-340 WAC, Model Toxics Control Act Statute and Regulation, Table 740-1, Method A Soil Cleanup Levels for Unrestricted Land Uses. Revised November 2007. <sup>e</sup> Method B cleanup level used because a Method A level is not established. Standard formula values, direct contact Method B soil cleanup levels as published in Ecology's Cleanup Level and Risk Calculation (CLARC) online database (January 2023). <sup>f</sup> Method B cleanup level used because a Method A level is not established. Standard formula values, protection of groundwater in the vadose zone Method B soil cleanup level as published in Ecology's CLARC online database (January 2023). The protection of groundwater in the vadose zone values were only applied to soil samples collected at depths of less than 8.7 feet bgs. <sup>g</sup> Method B cleanup level used because a Method A level is not established. Standard formula values, protection of groundwater in the saturated zone Method B soil cleanup level as published in Ecology's CLARC online database (January 2023). The protection of groundwater in the saturated zone values were only applied to the soil samples collected at depths greater than 8.7 feet bgs. <sup>h</sup> The analyte was not detected at a concentration greater than the method reporting limit (MRL); however, the MRL exceeded the MTCA Method A or Method B cleanup level.</p>															

**Table 2**  
**Groundwater Sampling Field Parameter Measurements**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Well Number	Date Measured	Approximate Total Purge Volume (gallons)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH	Redox Potential (mV)
MW-1	04/12/22	1.25	15.5	0.33	0.65	7.14	232.2
	07/13/22	1.50	15.7	0.27	0.14	5.89	10.8
	10/12/22	1.75	15.6	0.29	0.08	6.47	26.2
	01/09/23	2.00	15.9	0.38	0.43	6.61	23.7
MW-2	04/12/22	1.50	9.80	0.30	0.74	6.74	229.9
	07/13/22	1.00	14.0	0.33	0.12	6.19	8.90
	10/12/22	1.75	14.3	0.26	0.05	6.51	24.9
	01/09/23	1.25	8.60	0.31	0.94	6.75	15.8
MW-3	04/12/22	1.50	14.2	0.40	0.79	6.67	243.4
	07/13/22	1.25	15.8	0.39	0.07	6.23	1.70
	10/12/22	1.75	15.4	0.33	0.06	6.42	30.2
	01/09/23	1.25	14.3	0.29	0.06	6.42	33.7
MW-4	01/09/23	1.25	15.7	0.63	0.10	6.35	37.6
MW-5	01/10/23	1.75	15.4	0.33	0.06	6.50	29.3
MW-6	01/10/23	1.50	15.8	0.38	0.12	6.68	20.2
MW-7	01/10/23	1.00	12.7	0.40	0.13	6.55	27.0
MW-8	01/09/23	1.50	12.3	1.67	0.26	6.22	44.3
MW-9	01/09/23	1.75	12.8	0.61	0.60	6.63	22.6

**Notes:**

Field parameter measurements in this table were the final measurements prior to collecting each groundwater sample.

°C = Degrees Celsius.

mS/cm = millisiemens per centimeter.

mg/L = milligrams per liter.

mV = millivolts.

**Table 3**  
**Groundwater Monitoring Data**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Well Number	Approximate Depth of Well Screen (feet)	Top of Casing Elevation (feet) <sup>a</sup>	Date Measured	Depth to Groundwater (feet) <sup>b</sup>	Groundwater Elevation (feet)
MW-1	2.8 to 22.8	36.43	04/12/22	14.07	22.36
			07/12/22	15.28	21.15
			10/12/22	16.54	19.89
			01/09/23	13.67	22.76
MW-2	2.7 to 22.7	32.09	04/12/22	9.61	22.48
			07/12/22	10.84	21.25
			10/12/22	12.12	19.97
			01/09/23	9.18	22.91
MW-3	3.0 to 23.0	35.35	04/12/22	13.94	21.41
			07/12/22	15.08	20.27
			10/12/22	16.01	19.34
			01/09/23	13.50	21.85
MW-4	2.5 to 22.5	35.96	01/09/23	13.52	22.44
MW-5	2.4 to 22.4	36.30	01/09/23	13.56	22.74
MW-6	2.4 to 22.4	36.40	01/09/23	13.47	22.93
MW-7	3.0 to 23.0	33.23	01/09/23	10.22	23.01
MW-8	3.0 to 23.0	31.46	01/09/23	8.70	22.76
MW-9	2.0 to 22.0	31.99	01/09/23	9.30	22.69
<b>Notes:</b> <sup>a</sup> Elevations surveyed relative to the NAVD 88 vertical datum. <sup>b</sup> Depth below top of well casing.					

**Table 4**  
**Groundwater Sample Analytical Results**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Well Number	Sample ID	Date Collected	VOCs <sup>a</sup>								
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	Cis-1,2-Dichloroethene	Vinyl Chloride <sup>b</sup>	Chloroform	2-Chlorotoluene	Benzene	Ethylbenzene	Total Xylenes
MTCA Method A Cleanup Levels <sup>c</sup>			5.0	5.0	16 <sup>d</sup>	0.20	1.40 <sup>d</sup>	160 <sup>d</sup>	5.0	700	1,000
SLR Groundwater Monitoring Wells											
MW-1	MW-1-0422	04/12/22	<0.40	<0.40	<0.40	0.27	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-1-0722	07/12/22	0.20	<0.40	<0.40	0.052	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-1-1022	10/12/22	<0.40	<0.40	<0.40	0.036	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-1-0123	01/09/23	<0.40	<0.40	<0.40	0.38	<1.00	<1.00	<0.20	<0.50	<1.50
MW-2	MW-2-0422	04/12/22	<0.40	<0.40	0.65	0.085	<1.00	4.04	0.44	0.74	2.87
	MW-2-0722	07/12/22	<0.40	<0.40	0.51	0.21	<1.00	2.58	0.26	0.58	1.70
	MW-2-1022	10/12/22	<0.40	<0.40	<0.40	0.93	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-2-0123	01/09/23	<0.40	<0.40	0.46	0.10	<1.00	1.70	0.15 <sup>f</sup>	<0.50	0.51
MW-3	MW-3-0422	04/12/22	<0.40	<0.40	<0.40	<0.020	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-3-0722	07/12/22	<0.40	<0.40	<0.40	0.028	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-3-1022	10/12/22	<0.40	<0.40	<0.40	0.054	<1.00	<1.00	<0.20	<0.50	<1.50
	MW-3-0123	01/09/23	<0.40	<0.40	<0.40	<0.010	<1.00	<1.00	<0.20	<0.50	<1.50
MW-4	MW-4-0123	01/09/23	<0.40	<0.40	0.95	9.83	<1.00	<1.00	<0.20	<0.50	<1.50
MW-5	MW-5-0123	01/10/23	<0.40	<0.40	<0.40	<0.010	<1.00	<1.00	<0.20	<0.50	<1.50
MW-6	MW-6-0123	01/10/23	<0.40	<0.40	<0.40	<0.010	<1.00	<1.00	<0.20	<0.50	<1.50
MW-7	MW-7-0123	01/10/23	<0.40	<0.40	1.19	0.045	<1.00	<1.00	<0.20	<0.50	<1.50
MW-8	MW-8-0123	01/09/23	<0.40	<0.40	<0.40	1.01	<1.00	<1.00	<0.20	<0.50	<1.50
MW-9	MW-9-0123	01/09/23	<0.40	<0.40	0.24	1.61	<1.00	<1.00	<0.20	<0.50	<1.50
CODA 2021 Temporary Wells											
B-1	B1-W*	12/09/21	<1.00	<1.00	<1.00	<1.00 <sup>g</sup>	<5.00 <sup>g</sup>	<1.00	<1.00	<1.00	<3.00
B-2	B2-W*	12/09/21	<1.00	<1.00	<1.00	<1.00 <sup>g</sup>	<5.00 <sup>g</sup>	<1.00	<1.00	<1.00	<3.00
B-3	B3-W*	12/09/21	<1.00	<1.00	<1.00	<1.00 <sup>g</sup>	<5.00 <sup>g</sup>	<1.00	<1.00	<1.00	<3.00
B-4	B4-W*	12/09/21	<1.00	<1.00	0.31	0.44 <sup>e</sup>	<5.00 <sup>g</sup>	<1.00	<1.00	<1.00	<3.00
B-5	B5-W*	12/09/21	<1.00	<1.00	<1.00	<1.00 <sup>g</sup>	<5.00 <sup>g</sup>	<1.00	<1.00	<1.00	<3.00
B-6	B6-W*	12/09/21	<1.00	<1.00	0.16	<1.00 <sup>g</sup>	<5.00 <sup>g</sup>	<1.00	<1.00	<1.00	<3.00

**Table 4**  
**Groundwater Sample Analytical Results**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Well Number	Sample ID	Date Collected	VOCs <sup>a</sup>								
			Tetrachloroethene (PCE)	Trichloroethene (TCE)	Cis-1,2-Dichloroethene	Vinyl Chloride <sup>b</sup>	Chloroform	2-Chlorotoluene	Benzene	Ethylbenzene	Total Xylenes
MTCA Method A Cleanup Levels <sup>c</sup>			5.0	5.0	16 <sup>d</sup>	0.20	1.40 <sup>d</sup>	160 <sup>d</sup>	5.0	700	1,000
B-7	B7-W*	12/09/21	<1.00	<1.00	2.44	1.55 <sup>e</sup>	<5.00	0.20	<1.00	<1.00	<3.00
B-8	B8-W*	12/09/21	<1.00	<1.00	<1.00	<1.00 <sup>g</sup>	<5.00	<1.00	<1.00	<1.00	<3.00
B-9	B9-W*	12/09/21	<1.00	<1.00	<1.00	<1.00 <sup>g</sup>	<5.00	<1.00	<1.00	<1.00	<3.00
B-11	B11-W*	12/09/21	0.40	<1.00	0.37	2.99 <sup>e</sup>	<5.00	<1.00	<1.00	<1.00	<3.00
AECOM 2019 Temporary Wells											
GP-1	GP-1-W*	11/16/19	<1.00	<0.50	2.05	<0.20	<1.00	4.81	NA	NA	NA
GP-2	GP-2-W*	11/16/19	<1.00	<0.50	<1.00	<0.20	<1.00	<1.00	NA	NA	NA
GP-3	GP-3-W*	11/16/19	<1.00	<0.50	<1.00	0.35 <sup>e</sup>	<1.00	<1.00	NA	NA	NA
GP-4	GP-4-W*	11/16/19	1.04	<0.50	7.62	5.45 <sup>e</sup>	2.95	<1.00	NA	NA	NA
GP-5	GP-5-W*	11/16/19	<1.00	<0.50	<1.00	<0.20	<1.00	<1.00	NA	NA	NA

**Notes:**

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

This table only includes the volatile organic compound (VOC) analytes that were detected in at least one sample and that have MTCA cleanup levels.

Values in bold and **red** represent concentrations above the MTCA Method A groundwater cleanup levels.

\* = Groundwater sample was collected from a temporary well.

NA = Not analyzed

<sup>a</sup> VOCs analyzed by EPA Method 8260C or 8260D.

<sup>b</sup> Analyzed by EPA Method 8260C SIM or 8260D SIM.

<sup>c</sup> Ecology's Model Toxics Control Act (MTCA) Cleanup Regulation (Chapter 173-340 WAC), Table 720-1, Method A Cleanup Levels.

<sup>d</sup> Method B cleanup level used because Method A level is not established. Method B cleanup level as published on Ecology's Cleanup Level and Risk Calculation

<sup>e</sup> Sample collected from temporary well and may be biased high.

<sup>f</sup> Sample result is estimated. The result was detected below the lowest point of the calibration curve, but above the method detection limit (MDL).

<sup>g</sup> The analyte was not detected at a concentration greater than the method reporting limit (MRL); however, the MRL exceeded the MTCA Method A or Method B cleanup level.

**Table 5**  
**Indoor Air Sample Analytical Results**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Sample Designation	Sample Date	Analytical Results <sup>a</sup>													
		Vinyl Chloride	1,1-Dichloroethene	Trans-1,2-Dichloroethene	1,1-Dichloroethane	Cis-1,2-Dichloroethene	1,2-Dichloroethane	1,1,1-Trichloroethane	Trichloroethene (TCE)	Chloromethane	Trichlorofluoromethane	Dichlorodifluoromethane	Methylene Chloride	1,1,2-Trichloroethane	Tetrachloroethene (PCE)
MTCA Method B Indoor Air Cleanup Levels <sup>b</sup>		0.28	91	18	1.60	18	0.096	2,300	0.33	41	320	46	66	0.16	9.60
July 2022 SLR Sampling Event															
IA-1-0722	07/13/22	<0.26	<0.52	<0.52	<0.53	<0.52	<0.053	<0.71	<0.14	NA	NA	NA	NA	<0.071	<8.8
IA-2-0722	07/13/22	<0.26	<0.56	<0.56	<0.57	<0.56	<0.057	<0.76	<0.15	NA	NA	NA	NA	<0.076	<9.5
AA-1-0722	07/13/22	<0.26	<0.40	<0.40	<0.40	<0.40	0.040	<0.55	<0.11J	NA	NA	NA	NA	<0.055J	<6.8J
December 2021 CODA Sampling Event															
A-01	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.07	1.28	2.30	44.8	<1.09 <sup>c</sup>	ND
A-02	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.08	1.29	2.27	293	<1.09 <sup>c</sup>	ND
A-03	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.14	1.36	2.40	3.22	<1.09 <sup>c</sup>	2.01
A-04	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.21	1.35	2.38	2.86	<1.09 <sup>c</sup>	1.82
A-05	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.08	1.34	2.34	ND	<1.09 <sup>c</sup>	ND
A-06	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.12	1.39	2.35	2.65	<1.09 <sup>c</sup>	ND
A-07	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.12	1.46	2.40	2.97	<1.09 <sup>c</sup>	ND
A-08	12/08/21	<0.51 <sup>c</sup>	<0.79	<0.79	<0.80	<0.79	<0.81 <sup>c</sup>	<1.09	<1.07 <sup>c</sup>	1.17	1.34	2.37	ND	<1.09 <sup>c</sup>	ND
NOTES:															
This table only includes the analytes that were detected in at least one air sample and that have MTCA Method B indoor air cleanup levels.															
All values in micrograms per cubic meter (µg/m <sup>3</sup> )															
Values in <b>red</b> represent concentrations above MTCA Method B indoor Air cleanup levels.															
J = The laboratory reported the concentration as an estimate.															
NA = Not analyzed															
ND = Not detected															
<sup>a</sup> Analyzed by EPA Method TO-15.															
<sup>b</sup> MTCA Method B indoor air cleanup levels as published in Ecology's Cleanup Level and Risk Calculation (CLARC) online database (January 2023). If a contaminant has both non-cancer- and cancer-risk cleanup levels, the lower of the two values was applied.															
<sup>c</sup> The analyte was not detected at a concentration greater than the method reporting limit (MRL); however, the MRL exceeded the MTCA Method B cleanup level.															

**Table 6**  
**Cost Estimate for Alternative 1 - Enhanced Reductive Dechlorination**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Remedy Components:					
Solution Injections	- Inject 98,000 gallons of emulsified soybean oil and bioaugmentation solution into subsurface via 11 temporary injection points at depths from approximately 7 to 20 feet bgs (from 2 to 20 feet at locations with known shallow soil contamination). Assumes one round of solution injections required to effectively stimulate reductive dechlorination (RDC).				
Groundwater Monitoring	- Groundwater monitoring of 14 shallow and 2 deep monitoring wells for 2 years. Quarterly groundwater monitoring during the first year and the fourth year. Semiannual groundwater monitoring during the second and third years. Analytical testing for full-list VOCs by EPA Method 8260D (including vinyl chloride by 8260D SIM) and annual testing from five selected wells for dissolved ethene.				
Remedial Action Component	Units	No. of Units	Units	Cost	Total Cost
Pre-Remediation Activities					
Additional Investigation Activities	L.S.	1	\$58,000	\$58,000	
Permitting	L.S.	1	\$5,000	\$5,000	
Injection Solution Pilot Testing	L.S.	1	\$30,000	\$30,000	
					\$93,000
Soybean Oil and Bioaugmentation Solution Injections					
Drilling and Installation of Temporary Injection Points	L.S.	1	\$35,000	\$35,000	
Soybean Oil and Bioaugmentation Solution	L.S.	1	\$135,000	\$135,000	
Solution Mixing and Injection Contractor	L.S.	1	\$105,000	\$105,000	
					\$275,000
Subtotal					\$368,000
Contingency	20%				\$73,600
Project Management	3%				\$11,040
Design	5%				\$18,400
Construction Oversight and Reporting	11%				\$40,480
<b>Remedial Action Subtotal (Rounded to Nearest \$10,000)</b>					<b>\$510,000</b>
Groundwater Monitoring					
Quarterly groundwater sampling and reporting (yr. 1)		1	\$51,200	\$51,200	
Quarterly groundwater sampling, reporting, and project closure activities (yr. 2)		1	\$71,200	\$71,200	
<b>NPV<sup>1</sup> of Groundwater Monitoring Subtotal (Rounded to Nearest \$10,000)</b>					<b>\$120,000</b>
<b>REMEDIAL ACTION ESTIMATED TOTAL (Rounded to Nearest \$10,000)</b>					<b>\$630,000</b>

**Footnote:**

<sup>1</sup>Net present value (NPV) is based on a 2.5 percent discount rate for a 20-year period, as per OMB Circular No. A-94 (Executive Office of the President, Office of Management and Budget, 2022 Discount Rates memo dated March 15, 2022).

**Table 7**  
**Cost Estimate for Alternative 2 - Vacuum-Enhanced Groundwater Recovery and MNA**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Remedy Components:					
Vacuum-Enhanced Groundwater Recovery	- Install and operate vacuum-enhanced groundwater recovery system to extract the remaining HVOC-impacted soil and groundwater. The system will consist of 6 groundwater recovery wells fitted with pneumatic submersible pumps that are plumbed to a groundwater treatment system (air stripper). The recovery wells will be plumbed to a vacuum blower to provide vacuum enhancement to the pumping operations and soil vapor extraction to volatilize and remove the HVOCs from the soil. The extracted soil vapors and the air from the air stripper will be treated by two 1,000-pound granular activated carbon (GAC) canisters in series. The vacuum-enhanced groundwater recovery system will operate for two years.				
MNA	- Groundwater monitoring of 14 shallow and 2 deep monitoring wells on a quarterly basis for 3 years. Analytical testing for full-list VOCs by EPA Method 8260D (including vinyl chloride by 8260D SIM).				
Remedial Action Component	Units	No. of Units	Units	Cost	Total Cost
Pre-remediation Activities					
Additional Investigation Activities	L.S.	1	\$58,000	\$58,000	
Permitting	L.S.	1	\$20,000	\$20,000	
Vacuum-Enhanced Groundwater Pump Tests	L.S.	1	\$30,000	\$30,000	
					\$108,000
Vacuum-Enhanced Groundwater Recovery System Installation					
Groundwater Recovery Well Installation	L.S.	1	\$30,000	\$30,000	
System Equipment and Enclosure	L.S.	1	\$145,000	\$145,000	
System Piping and Equipment Installation	L.S.	1	\$170,000	\$170,000	
					\$345,000
Subtotal					\$453,000
Contingency	20%				\$90,600
Project Management	4%				\$18,120
Design	7%				\$31,710
Construction Oversight and Reporting	10%				\$45,300
<b>Remedial Action Subtotal (Rounded to Nearest \$10,000)</b>					<b>\$640,000</b>
System O&M and Groundwater Monitoring					
System O&M, quarterly groundwater sampling and reporting (yr. 1)		1	\$185,000	\$185,000	
System O&M, quarterly groundwater sampling and reporting (yr. 2)		1	\$168,000	\$168,000	
Quarterly groundwater sampling, reporting, and project closure activities (yr. 3)		1	\$70,000	\$70,000	
<b>NPV<sup>1</sup> of O&amp;M and Groundwater Monitoring Subtotal (Rounded to Nearest \$10,000)</b>					<b>\$410,000</b>
<b>REMEDIAL ACTION ESTIMATED TOTAL (Rounded to Nearest \$10,000)</b>					<b>\$1,050,000</b>

**Footnote:**

<sup>1</sup>Net present value (NPV) is based on a 2.5 percent discount rate for a 20-year period, as per OMB Circular No. A-94 (Executive Office of the President, Office of Management and Budget, 2022 Discount Rates memo dated March 15, 2022).

**Table 8**  
**Cost Estimate for Alternative 3 - Soil Excavation, Groundwater Extraction, and MNA**  
**Building C at Woodinville West Business Park**  
**Woodinville, Washington**

Remedy Components:					
Soil Excavation	- Excavate the two areas of HVOC-impacted soil at the Site and transport the material off-site for disposal as contained-in waste at a licensed facility. A controlled-density fill gravity shoring wall will be constructed to protect Building C, and the interior wall between Suites C-101 and C-102 will be removed and replaced. The excavations will extend to approximately 20 feet below ground surface, and an estimated 2,910 in-place cubic yards of soil will be removed.				
GW Recovery	- An estimated total of 400,000 gallons of groundwater that collects in the open excavations will be pumped through a treatment system that includes a 20,000-gallon settling tank, sand or bag filters, two 1,000-pound granular activated carbon (GAC) canisters in series, and a 20,000-gallon holding tank. The treated water will be discharged into the sanitary sewer system.				
MNA	- Groundwater monitoring of 14 shallow and 2 deep monitoring wells for 3 years. Quarterly groundwater monitoring during the first and third years. Semiannual groundwater monitoring during the second year. Analytical testing for full-list VOCs by EPA Method 8260D (including vinyl chloride by 8260D SIM).				
Remedial Action Component	Units	No. of Units	Units	Cost	Total Cost
Pre-remediation Activities					
Additional Investigation Activities	L.S.	1	\$58,000	\$58,000	
Permitting	L.S.	1	\$40,000	\$40,000	
Abandon Monitoring Wells	L.S.	1	\$12,000	\$12,000	
					\$110,000
Soil Excavation and Disposal					
Mobilization/Demobilization	L.S.	1	\$8,500	\$8,500	
Remove and Replace Interior Wall	L.S.	1	\$30,000	\$30,000	
Install Shoring	LF	85	\$1,200	\$102,000	
Soil Excavation and Stockpile Construction	BCY	2,910	\$18.50	\$53,835	
Hauling and Off-Site Disposal	Ton	5,150	\$150	\$772,500	
Backfilling	Ton	5,150	\$48.00	\$247,200	
Surface Paving	SF	7,600	\$38.50	\$292,600	
					\$1,506,635
Groundwater Recovery and Treatment					
System Equipment and Water Discharge Fee	L.S.	1	\$55,000	\$55,000	
					\$55,000
Subtotal					\$1,671,635
Contingency	20%				\$334,327
Project Management	1%				\$16,716
Design	3%				\$50,149
Construction Oversight and Reporting	4%				\$66,865
<b>Remedial Action Subtotal (Rounded to Nearest \$10,000)</b>					<b>\$2,140,000</b>
Groundwater Monitoring					
Quarterly groundwater sampling and reporting (yr. 1)		1	\$50,000	\$50,000	
Semiannual groundwater sampling and reporting (yr. 2)		1	\$25,000	\$25,000	
Quarterly groundwater sampling, reporting, and project closure activities (yr. 3)		1	\$70,000	\$70,000	
					\$70,000
<b>Groundwater Monitoring Subtotal (Rounded to Nearest \$10,000)</b>					<b>\$70,000</b>
<b>REMEDIAL ACTION ESTIMATED TOTAL (Rounded to Nearest \$10,000)</b>					<b>\$2,210,000</b>



## **APPENDIX A**

### **SOIL BORING LOGS**



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# BORING NUMBER SB-1

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/8/22 COMPLETED 4/8/22

GROUND ELEVATION HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push

▼ AT TIME OF DRILLING 14.5 ft

LOGGED BY S. Losleben

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0								
	Hand Auger			100		0.5	CONCRETE	
					SP		SAND, gray, fine grained, moist, no odor	
	Hand Auger			100		1.5	SANDY SILT, gray, some fine sand, moist, no odor	0.2
					SP-SM			
	Hand Auger			100		3.0	SAND w/ GRAVEL, gray, fine to coarse grained, few fine gravel, moist, no odor	0.1
	Hand Auger			100				0.6
					SP			
5	Hand Auger		SB-1-4.5-5.0*	100				1.5
						6.0	SILTY SAND, gray, fine grained, little silt, moist, no odor	1.2
	Direct Push			80	SM			0.6
						9.5	SAND, gray, fine grained, moist, no odor	1.4
10					SP			
						11.0	SILTY SAND, gray, fine grained, little silt, moist, no odor	1.1
	Direct Push			100	SM			0.5
						14.5 ▼	SAND, gray, fine grained, wet, no odor	0.7
15					SP			

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.

(Continued Next Page)

SLR SB LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 5/17/22



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## BORING NUMBER SB-1

PAGE 2 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
15								
		Direct Push		100	SP		SAND, gray, fine grained, wet, no odor (continued)	0.9
								0.6
20								0.1
20.0								

### BORING COMPLETION DETAILS:

Boring completed at 20.0 feet bgs.

Boring backfilled with hydrated bentonite chips up to 1.5 feet bgs and then concrete to the ground surface.

### REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.



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# BORING NUMBER SB-2

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/8/22 COMPLETED 4/8/22

GROUND ELEVATION HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push

▼ AT TIME OF DRILLING 14 ft

LOGGED BY S. Losleben

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0								
	Hand Auger			100		0.5	CONCRETE	
	Hand Auger			100	SP		SAND w/ GRAVEL, gray, fine to medium grained, few fine gravel, moist, no odor	0.1
	Hand Auger			100		2.5	SAND w/ GRAVEL and SILT, gray, fine grained, few fine gravel, few silt, moist, no odor	0.1
	Hand Auger			100				0.8
5	Hand Auger		SB-2-4.0-4.5*	100	SP			1.4
								0.4
	Direct Push			80		7.0	SAND w/ SILT, gray, fine grained, few silt, moist, no odor	0.2
					SP-SM			0.2
10								1.5
	Direct Push			90	SP	12.0	SAND, gray, fine grained, moist, no odor	0.5
					SP-SM	12.5	SANDY SILT, gray, some fine sand, moist, no odor	
						14.0 ▼	ORGANIC SILT, dark brown, some organics, wet, organic-like odor	0.8
15					ML			

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).  
Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.  
Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.  
Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.  
NM = Not measured.  
\* = Soil sample submitted for laboratory analysis.  
▼ Water level at time of drilling.

(Continued Next Page)

SLR SB LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 5/17/22



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## BORING NUMBER SB-2

PAGE 2 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
15								
							<b>ORGANIC SILT</b> , dark brown, some organics, wet, organic-like odor ( <i>continued</i> )	0.9
		Direct Push		100	ML	17.5		0.5
					SP		<b>SAND</b> , gray, fine grained, wet, no odor	
20						20.0		0.3

### BORING COMPLETION DETAILS:

Boring completed at 20.0 feet bgs.

Boring backfilled with hydrated bentonite chips up to 1.5 feet bgs and then concrete to the ground surface.

### REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.



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# BORING NUMBER SB-3

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/8/22 COMPLETED 4/8/22

GROUND ELEVATION HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push

▼ AT TIME OF DRILLING 15 ft

LOGGED BY S. Losleben

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0								
		Hand Auger		100		0.5	CONCRETE	
		Hand Auger		100	SP		SAND, gray, fine to medium grained, trace fine gravel, moist, no odor	0.2
		Hand Auger		100				0.4
		Hand Auger		100		3.5	SAND w/ GRAVEL and SILT, gray, fine to coarse grained, few silt, few fine gravel, moist, no odor	0.1
5		Hand Auger		100	SP		@ 4.5 feet: Encountered cobble with hand auger	0.4
			SB-3-6.0-6.5*			6.0	SILTY SAND, gray, fine grained, little silt, moist, no odor	1.0
		Direct Push		100	SM			0.1
						9.5	SAND, gray, fine grained, moist, no odor	1.2
10					SP			0.7
		Direct Push		60		13.0	SILTY SAND, gray, fine grained, some silt, moist, no odor	0.7
					SM			
15						15.0 ▼		

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).  
Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.  
Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.  
Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.  
NM = Not measured.  
\* = Soil sample submitted for laboratory analysis.  
▼ Water level at time of drilling.

(Continued Next Page)

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## BORING NUMBER SB-3


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CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
15								
		Direct Push		100	SP		<b>SAND</b> , gray, fine grained, wet, no odor	0.1
								0.5
								0.0
20								0.0
						20.0		

### BORING COMPLETION DETAILS:

Boring completed at 20.0 feet bgs.

Boring backfilled with hydrated bentonite chips up to 1.5 feet bgs and then concrete to the ground surface.

### REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.



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# BORING NUMBER SB-4

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CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/7/22 COMPLETED 4/7/22

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push

▼ AT TIME OF DRILLING 16 ft

LOGGED BY S. Losleben CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES \_\_\_\_\_

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0								
		Hand Auger		100		0.5	CONCRETE	
		Hand Auger		100	SP		SAND, gray, fine to medium grained, trace fine gravel, moist, no odor	0.1
		Hand Auger		100		2.5	SAND w/ SILT and GRAVEL, dark brown, fine to coarse grained, few silt, few fine to coarse gravel, moist, no odor	1.4
		Hand Auger		100	SP-SM			1.7
5		Hand Auger	SB-4-4.0-4.5*	100				3.2
						5.5	SILTY SAND, gray, fine grained, little silt, moist, no odor	2.2
		Direct Push		80	SM			0.8
						8.5	SILTY SAND, gray, fine grained, some silt, moist, no odor	
10					SM			
						9.5	SAND, gray, fine grained, moist, no odor	
		Direct Push		25	SP			1.7
15								1.2

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.

(Continued Next Page)

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## BORING NUMBER SB-4

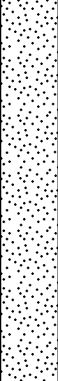
PAGE 2 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
15								
		Direct Push	SB-4-16.0- 16.5*	100	SP		<b>SAND</b> , gray, fine grained, moist, no odor ( <i>continued</i> )  ▼ @ 16.0 feet: Becomes wet	0.5 0.2  0.2
20								

### BORING COMPLETION DETAILS:

Boring completed at 20.0 feet bgs.

Boring backfilled with hydrated bentonite chips up to 1.5 feet bgs and then concrete to the ground surface.

### REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.



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# BORING NUMBER SB-5

PAGE 1 OF 1

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/7/22 COMPLETED 4/7/22

GROUND ELEVATION HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Hand Auger

AT TIME OF DRILLING

LOGGED BY S. Losleben

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0								
		Hand Auger		100		0.6	CONCRETE	
		Hand Auger		100			SAND w/ GRAVEL, gray, fine to coarse grained, few fine to coarse gravel, trace silt, moist, no odor	0.0
		Hand Auger		100	SP			0.0
		Hand Auger		100		4.0		0.0
5		Hand Auger	SB-5-4.5-5.0*	100	SP	5.0	SAND, gray, fine to medium grained, moist, no odor	0.2 0.4

## BORING COMPLETION DETAILS:

Boring completed at 5.0 feet bgs.

Boring backfilled with hydrated bentonite chips up to 1.5 feet bgs and then concrete to the ground surface.

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.



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# BORING NUMBER MW-1

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/7/22 COMPLETED 4/7/22

GROUND ELEVATION 36.73 ft HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 14 ft

LOGGED BY S. Losleben CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
	Hand Auger			100		0.8	CONCRETE	36.0	Concrete
	Hand Auger			100			SAND w/ GRAVEL, brown, fine to coarse grained, few fine to coarse gravel, moist, no odor	0.7	Hydrated bentonite chips
	Hand Auger			100				0.8	2-inch sch 40 PVC riser
	Hand Auger			100	SP			0.3	
	Hand Auger			100				0.2	
5						5.5		31.2	
					SM		SILTY SAND, gray, fine grained, little silt, moist, no odor	0.4	
	Direct Push			100		8.0		1.1	
							SANDY SILT, gray, some fine sand, moist, no odor	0.3	
10					SP-SM			0.7	
								1.2	#10/20 silica sand
	Direct Push			60		12.0		2.3	
					SP		SAND, gray, fine grained, trace silt, moist, no odor		2-inch sch 40 PVC 0.01" slot screen
			MW-1-13.0-13.5*					1.9	
							▼ @ 14.0 feet: Becomes wet		
15					SP-	14.5		22.2	
							SANDY SILT, gray, some fine sand, moist, no odor		

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).  
Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.  
Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.  
Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.  
NM = Not measured.  
\* = Soil sample submitted for laboratory analysis.  
▼ Water level at time of drilling.

(Continued Next Page)

SLR SB LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 2/22/23



22118 20th Ave. SE, Suite G-202  
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# BORING NUMBER MW-1

PAGE 2 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
15					SM		<b>SANDY SILT</b> , gray, some fine sand, moist, no odor (continued)	21.2	
					ML		<b>ORGANIC SILT</b> , dark brown, some organics, wet, organic-like odor	20.2	
		Direct Push		100			<b>SAND</b> , gray, fine grained, trace organics, wet, no odor	0.7	
20					SP			0.2	
		Direct Push	MW-1- 22.5-23.0*	100				0.2	
								13.7	End cap

## BORING COMPLETION DETAILS:

Boring completed at 23.0 feet bgs.

0.0 to 1.0 feet: Concrete.

1.0 to 2.0 feet: Hydrated bentonite chips

3.0 to 23.0 feet: 10x20 silica sand pack.

0.0 to 3.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC riser.

3.0 to 22.8 feet: 2"-diameter, flush-threaded Sch. 40 PVC 0.010-slotted well screen.

22.8 to 23.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC cap.

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.



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# BORING NUMBER MW-2

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/6/22 COMPLETED 4/6/22

GROUND ELEVATION 32.36 ft HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 7 ft

LOGGED BY S. Losleben

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
	Hand Auger			100		0.5	CONCRETE	31.9	Concrete
	Hand Auger			100	SP		SAND, brown- gray, fine to coarse grained, trace fine gravel, moist, no odor	0.0	Hydrated bentonite chips
	Hand Auger			100		3.0		0.1	2-inch sch 40 PVC riser
	Hand Auger			100			SILTY SAND, gray, fine grained, little silt, trace fine gravel, moist, no odor	0.0	
5	Hand Auger			100	SM			0.1	
			MW-2-6.0-6.5*			6.0	SAND, gray, fine grained, trace silt, moist, no odor	1.4	
	Direct Push			100	SP		▼ @ 7.0 feet: Becomes wet	1.2	
						8.0		1.7	
					SM		SILTY SAND w/ ORGANICS, gray- brown, fine grained, some silt, few organics, wet, organic-like odor	1.8	
10						11.0		1.3	#10/20 silica sand
					ML		ORGANIC SILT, brown, little organics, wet, organic-like odor	0.8	
	Direct Push			90		12.5		0.0	2-inch sch 40 PVC 0.01" slot screen
					SP		SAND, gray, fine grained, trace organics, wet, no odor		
15									

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.

Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.

NM = Not measured.

\* = Soil sample submitted for laboratory analysis.

▼ Water level at time of drilling.

SLR SB LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 5/17/22

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# BORING NUMBER MW-3

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 4/6/22 COMPLETED 4/6/22

GROUND ELEVATION 35.69 ft HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Cascade Drilling

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 9 ft

LOGGED BY S. Losleben

CHECKED BY M. Staton

AFTER DRILLING N/A

## NOTES

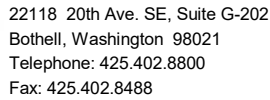
DEPTH (ft)	INTERVAL	TYPE	SAMPLE NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
	Hand Auger			100		0.3	GRASS	35.4	
	Hand Auger			100	SP		SAND w/ GRAVEL, brown, fine to coarse grained, few fine to coarse gravel, trace silt, moist, no odor		Concrete
	Hand Auger			100				0.1	Hydrated bentonite chips
	Hand Auger			100		3.0			2-inch sch 40 PVC riser
	Hand Auger			100			SAND w/ SILT and GRAVEL, brown, fine to medium grained, few silt, few fine to coarse gravel, trace construction debris (concrete, plastic), moist, no odor	0.1	
5	Hand Auger			100	SP-SM			0.0	
						6.5			
	Direct Push			80	SP		SAND, gray, fine grained, trace silt, moist, no odor	0.1	
						8.0			
					SM		SILTY SAND w/ ORGANICS, brown, fine grained, little silt, few organics, moist, no odor	0.1	
						9.0		0.2	
							SAND, gray, fine grained, wet, no odor		
10					SP				#10/20 silica sand
						11.5		0.4	
							SANDY SILT, gray, some fine sand, trace woody debris, wet, no odor	0.3	
	Direct Push			90	SP-SM				2-inch sch 40 PVC 0.01" slot screen
						14.5		0.1	
15					SP		SAND, gray, fine grained, trace organics, wet, no odor		

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).  
Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.  
Split Spoon = Soil samples collected within 18-inch-long stainless-steel split-barrel sampler.  
Hand Auger = Soil samples collected within 8-inch-long stainless-steel auger.  
NM = Not measured.  
\* = Soil sample submitted for laboratory analysis.  
▼ Water level at time of drilling.

SLR SB LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 5/17/22

(Continued Next Page)





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# BORING NUMBER MW-4

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23

COMPLETED 1/4/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 16 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
0.4							CONCRETE		
							SAND with GRAVEL, light brown, fine to coarse grained, few fine gravel, moist, no odor		Concrete
		Air Knife		100	SP				Hydrated bentonite chips
									2-inch sch 40 PVC riser
4.0							SAND with SILT and GRAVEL, brown to gray, fine to coarse grained, few silt, few fine grained gravel, moist, no odor	0.1	
5					SP-SM				
6.0							SANDY SILT, gray, some fine sand, moist, no odor	0.0	
		Direct Push		75	ML				
7.5							SILT, gray, brown mottling, moist, no odor	0.0	
					ML				
9.0							SAND with SILT, brown to gray, fine to medium grained, few silt, moist, no odor	0.0	
10					SW-SM				
10.0							SANDY SILT, gray, some fine sand, moist, no odor	0.0	#10/20 silica sand
					SM				
11.0							SILT, gray, moist, no odor	0.1	
		Direct Push		100	ML				2-inch sch 40 PVC 0.01" slot screen
14.0							ORGANIC SILT, dark brown, some organics, moist, organic-like odor	0.0	
					ML				
15									

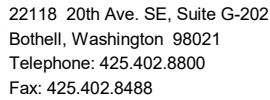
## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

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SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23



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# BORING NUMBER MW-5

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/4/23

COMPLETED 1/5/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 17 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
		Air Knife		100	SP		CONCRETE		Concrete
						0.8	SAND with GRAVEL, brown to gray, fine to coarse grained, few fine to coarse gravel, moist, no odor		Hydrated bentonite chips
5									2-inch sch 40 PVC riser
		Direct Push		75	SP-SM	5.5	SAND with SILT, gray, fine to medium grained, few silt, trace fine grained gravel, moist, no odor	0.0	
					SM	7.0	SILTY SAND, gray, fine to medium grained, some silt, moist, no odor		
					ML	8.0	SILT, gray, moist, no odor	0.1	
10					SW-SM	9.5	SAND with SILT, brown to gray, fine to medium grained, few silt, trace root, moist, no odor	0.1	#10/20 silica sand
						10.5	@ 10.0 feet: No trace root		
					ML		SILT, gray, moist, no odor		
		Direct Push		100	ML	12.0	SILT with SAND, gray, few fine grained sand, moist, no odor	0.0	
					ML	13.0	ORGANIC SILT, brown, some organics, moist, organic-like odor	0.0	2-inch sch 40 PVC 0.01" slot screen
15					ML				

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

(Continued Next Page)

**CLIENT** Woodinville CD, LLC

**PROJECT NAME** Woodinville West Business Park, Building C

**PROJECT NUMBER** 128.20841.00001

**PROJECT LOCATION** 16750 Woodinville-Redmond Rd NE, Woodinville, WA

**DATE STARTED** 1/4/23      **COMPLETED** 1/5/23

GROUND ELEVATION \_\_\_\_\_ HOLE SIZE 6" - diameter

**DRILLING CONTRACTOR** Holt Services

**GROUND WATER LEVELS:**

**DRILLING METHOD** Direct Push/Hollow-Stem Auger

**▽ AT TIME OF DRILLING** 17 ft

**LOGGED BY** S. Lo      **CHECKED BY** M. Staton

**AFTER DRILLING** N/A

## NOTES

[illegible]

**WELL COMPLETION DETAILS:**

Boring completed at 23.0 feet bgs.

0.0 to 1.0 feet: Concrete.

1.0 to 2.0 feet: Hydrated bentonite chips

2.0 to 23.0 feet: 10x20 silica sand pack.

0.0 to 3.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC riser.

3.0 to 22.8 feet: 2"-diameter, flush-threaded Sch. 40 PVC 0.010-slotted well screen.

22.8 to 23.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC cap.

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

**▼** = Water level at time of drilling.



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# BORING NUMBER MW-6

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23

COMPLETED 1/5/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 13 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0							CONCRETE		
						0.8	SAND with GRAVEL, brown to gray, fine to coarse grained, few fine to coarse gravel, moist, no odor		Concrete
		Air Knife		100	SP				Hydrated bentonite chips
						4.0	SILTY SAND, brown to gray, fine to medium grained, little silt, moist, no odor		2-inch sch 40 PVC riser
5									
					SM		@ 6.5 feet: Trace roots @ 7.0 feet: Becomes gray	0.0	
		Direct Push		75		8.0	SANDY SILT, gray, some fine grained sand, moist, no odor	0.0	
					ML		@ 9.0 feet: Brown mottling	0.0	
10									#10/20 silica sand
					ML		SILT, gray, moist, no odor	0.1	
		Direct Push		100		11.0			
					ML				
						13.0	@ 13.0 feet: Becomes wet SAND, gray, fine to medium grained, trace silt, wet, no odor		2-inch sch 40 PVC 0.01" slot screen
					SP				
15									

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

(Continued Next Page)



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# BORING NUMBER MW-6

PAGE 2 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23

COMPLETED 1/5/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 13 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
15									
		Direct Push		100	SP		<b>SAND</b> , gray, fine to medium grained, trace silt, wet, no odor (continued)	0.0	
20								0.0	
		Direct Push		100				0.0	
								0.1	
								0.1	End cap

## WELL COMPLETION DETAILS:

Boring completed at 23.0 feet bgs.

0.0 to 1.0 feet: Concrete.

1.0 to 2.0 feet: Hydrated bentonite chips

2.0 to 23.0 feet: 10x20 silica sand pack.

0.0 to 3.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC riser.

3.0 to 22.8 feet: 2"-diameter, flush-threaded Sch. 40 PVC 0.010-slotted well screen.

22.8 to 23.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC cap.

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.



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# BORING NUMBER MW-7

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23 COMPLETED 1/5/23

GROUND ELEVATION HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 6 ft

LOGGED BY S. Lo CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
		Air Knife		100	SP	0.3	ASPHALT		Concrete
							SAND with GRAVEL, brown, fine to coarse grained, few fine to coarse gravel, moist, no odor		Hydrated bentonite chips
5						5.0	SAND with SILT, gray, fine to medium grained, few silt, moist, no odor	0.0	2-inch sch 40 PVC riser
		Direct Push		75	SW-SM		▼ @ 6.0 feet: Becomes wet		
					ML	7.0	@ 7.0 feet: Becomes gray		
							SILT, gray, moist, no odor		
					SW	8.0	SAND with SILT, gray, fine to medium grained, few silt, trace roots, moist, no odor	0.0	
					ML	8.3	SILT, gray, moist, no odor		
10						9.5	SILTY SAND, gray, fine to medium grained, some silt, moist, no odor	0.0	#10/20 silica sand
					SM				
					ML	10.5	SILT, gray, moist, no odor	0.0	
		Direct Push		100	ML	11.5	ORGANIC SILT, brown, some organics, moist, organic-like odor	0.0	2-inch sch 40 PVC 0.01" slot screen
15					SP	13.5	SAND, gray, fine to medium grained, trace silt, wet, no odor		

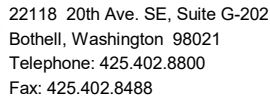
## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

(Continued Next Page)



**PROJECT NAME** Woodinville West Business Park, Building C

**PROJECT LOCATION** 16750 Woodinville-Redmond Rd NE, Woodinville, WA

**GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** 6" - diameter

**GROUND WATER LEVELS:**

**▽ AT TIME OF DRILLING** 6 ft

**AFTER DRILLING** N/A

[illegible]

Boring completed at 23.0 feet bgs.

0.0 to 1.0 feet: Concrete.  
1.0 to 2.0 feet: Hydrated bentonite chips  
2.0 to 23.0 feet: 10x20 silica sand pack.

0.0 to 3.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC riser.  
3.0 to 22.8 feet: 2"-diameter, flush-threaded Sch. 40 PVC 0.010-slotted well screen.  
22.8 to 23.0 feet: 2"-diameter, flush-threaded Sch. 40 PVC cap.

PID = Photoionization detector readings in parts per million (ppm).  
Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

**▼** = Water level at time of drilling.



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# BORING NUMBER MW-8

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CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23

COMPLETED 1/4/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 6 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0							CONCRETE		
		Air Knife		100	SP-SM		SAND with SILT and GRAVEL, brown to gray, fine to coarse grained, few fine to coarse gravel, few silt, moist, no odor		Concrete
5							SAND with SILT, gray, fine to medium grained, little silt, moist, no odor		Hydrated bentonite chips
		Direct Push		75	SW-SM		▼ @ 6.0 feet: Becomes wet	0.0	2-inch sch 40 PVC riser
					ML		SILT, gray, moist, no odor		
					ML		SILT with SAND, gray, little fine grained sand, moist, no odor	0.0	
10							ORGANIC SILT, brown, some organics, moist, organic-like odor	0.0	#10/20 silica sand
		Direct Push		100	ML			0.0	
15					SP		SAND, gray, fine to medium grained, wet, no odor		2-inch sch 40 PVC 0.01" slot screen

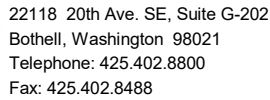
## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

(Continued Next Page)



SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23



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# BORING NUMBER MW-9

PAGE 1 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23

COMPLETED 1/4/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 6 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

SLR MW LOG WOODINVILLE WEST BUSINESS PARK BORING LOGS.GPJ GINT US.GDT 1/6/23

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0									
		Air Knife		100	SP-SM		CONCRETE		Concrete
						0.8	SAND with SILT and GRAVEL, brown, fine to coarse grained, few silt, few fine to coarse gravel, moist, no odor		Hydrated bentonite chips
5					SM		SILTY SAND, gray, fine to medium grained, little silt, moist, no odor	0.1	2-inch sch 40 PVC riser
		Direct Push		75	ML		▼ @ 6.0 feet: Becomes wet		
						7.0	SILT, gray, brown mottling, trace roots, moist, no odor	0.3	
10							ORGANIC SILT, brown, few roots, moist, organic-like odor	0.0	#10/20 silica sand
		Direct Push		100	ML			0.0	2-inch sch 40 PVC 0.01" slot screen
15					ML		SANDY SILT, gray to brown, some fine grained sand, wet, no odor		
						14.0			

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

(Continued Next Page)



22118 20th Ave. SE, Suite G-202  
Bothell, Washington 98021  
Telephone: 425.402.8800  
Fax: 425.402.8488

# BORING NUMBER MW-9

PAGE 2 OF 2

CLIENT Woodinville CD, LLC

PROJECT NAME Woodinville West Business Park, Building C

PROJECT NUMBER 128.20841.00001

PROJECT LOCATION 16750 Woodinville-Redmond Rd NE, Woodinville, WA

DATE STARTED 1/3/23

COMPLETED 1/4/23

GROUND ELEVATION

HOLE SIZE 6" - diameter

DRILLING CONTRACTOR Holt Services

GROUND WATER LEVELS:

DRILLING METHOD Direct Push/Hollow-Stem Auger

▼ AT TIME OF DRILLING 6 ft

LOGGED BY S. Lo

CHECKED BY M. Staton

AFTER DRILLING N/A

NOTES

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
15									
					ML		<b>SANDY SILT</b> , gray to brown, some fine grained sand, wet, no odor ( <i>continued</i> )	0.0	
						16.0		0.0	
					SM		<b>SILTY SAND</b> , gray, fine to medium grained, little silt, wet, no odor		
				100		18.0		0.0	
							<b>SAND</b> , gray, fine to medium grained, wet, no odor		
20								0.0	
								0.1	
				100	SP			0.0	
									End cap
25						25.0			

## WELL COMPLETION DETAILS:

Boring completed at 23.0 feet bgs.

0.0 to 1.0 feet: Concrete.

1.0 to 1.9 feet: Hydrated bentonite chips

1.9 to 22.9 feet: 10x20 silica sand pack.

0.0 to 2.9 feet: 2"-diameter, flush-threaded Sch. 40 PVC riser.

2.9 to 22.7 feet: 2"-diameter, flush-threaded Sch. 40 PVC 0.010-slotted well screen.

22.7 to 22.9 feet: 2"-diameter, flush-threaded Sch. 40 PVC cap.

## REMARKS

PID = Photoionization detector readings in parts per million (ppm).

Direct Push = Soil samples collected as a continuous core within a 5-foot-long acetate liner.

▼ = Water level at time of drilling.

## **APPENDIX B**

### **LABORATORY REPORTS**

# SOIL SAMPLES



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Friday, April 29, 2022

Mike Staton  
SLR Corporation-Bothell  
22118 20th Ave SE, Suite G202  
Bothell, WA 98021

RE: A2D0430 - Woodinville West - 101.20841.00001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2D0430, which was received by the laboratory on 4/9/2022 at 10:00:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

---

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	3.2 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

---



Apex Laboratories

Philip Nerenberg, Lab Director

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A2D0430 - 04 29 22 1307**

## ANALYTICAL REPORT FOR SAMPLES

### SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1-4.5'-5.0'	A2D0430-01	Soil	04/08/22 08:47	04/09/22 10:00
SB-2-4.0'-4.5'	A2D0430-03	Soil	04/08/22 09:41	04/09/22 10:00
SB-3-6.0'-6.5'	A2D0430-05	Soil	04/08/22 10:30	04/09/22 10:00
SB-4-4.0'-4.5'	A2D0430-07	Soil	04/07/22 08:50	04/09/22 10:00
SB-4-16.0'-16.5'	A2D0430-08	Soil	04/07/22 08:55	04/09/22 10:00
SB-5-4.5'-5.0'	A2D0430-10	Soil	04/07/22 09:11	04/09/22 10:00
MW-1-13.0'-13.5'	A2D0430-11	Soil	04/07/22 10:58	04/09/22 10:00
MW-1.22.5'-23.0'	A2D0430-12	Soil	04/07/22 11:04	04/09/22 10:00
MW-2-6.0'-6.5'	A2D0430-13	Soil	04/06/22 10:12	04/09/22 10:00
MW-3-8.5'-9.0'	A2D0430-15	Soil	04/06/22 14:13	04/09/22 10:00

Apex Laboratories

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-1-4.5'-5.0' (A2D0430-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Acetone	ND	---	1.10	mg/kg dry	50	04/13/22 14:15	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Benzene	ND	---	0.0110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Bromobenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Bromochloromethane	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Bromodichloromethane	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Bromoform	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Bromomethane	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
2-Butanone (MEK)	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
n-Butylbenzene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
sec-Butylbenzene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
tert-Butylbenzene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Carbon disulfide	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Carbon tetrachloride	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Chlorobenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Chloroethane	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Chloroform	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Chloromethane	ND	---	0.274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
2-Chlorotoluene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
4-Chlorotoluene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Dibromochloromethane	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Dibromomethane	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-1-4.5'-5.0' (A2D0430-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
1,2-Dichloropropane	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Ethylbenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Hexachlorobutadiene	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
2-Hexanone	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Isopropylbenzene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Methylene chloride	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	0.548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Naphthalene	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
n-Propylbenzene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Styrene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Toluene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Trichlorofluoromethane	ND	---	0.110	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
Vinyl chloride	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
m,p-Xylene	ND	---	0.0548	mg/kg dry	50	04/13/22 14:15	5035A/8260D	
o-Xylene	ND	---	0.0274	mg/kg dry	50	04/13/22 14:15	5035A/8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-1-4.5'-5.0' (A2D0430-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %	Limits: 80-120 %	1	04/13/22 14:15	5035A/8260D		
Toluene-d8 (Surr)		98 %	80-120 %	1	04/13/22 14:15	5035A/8260D		
4-Bromofluorobenzene (Surr)		101 %	79-120 %	1	04/13/22 14:15	5035A/8260D		
<b>SB-2-4.0'-4.5' (A2D0430-03)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Acetone	ND	---	1.26	mg/kg dry	50	04/13/22 14:42	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Benzene	ND	---	0.0126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Bromobenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Bromochloromethane	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Bromodichloromethane	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Bromoform	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Bromomethane	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
2-Butanone (MEK)	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
n-Butylbenzene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
sec-Butylbenzene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
tert-Butylbenzene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Carbon disulfide	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Carbon tetrachloride	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Chlorobenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Chloroethane	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Chloroform	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Chloromethane	ND	---	0.316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
2-Chlorotoluene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
4-Chlorotoluene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Dibromochloromethane	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Dibromomethane	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SB-2-4.0'-4.5' (A2D0430-03)				Matrix: Soil		Batch: 22D0439		
1,2-Dichloroethane (EDC)	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Ethylbenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Hexachlorobutadiene	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
2-Hexanone	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Isopropylbenzene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Methylene chloride	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	0.632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Naphthalene	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
n-Propylbenzene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Styrene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Toluene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Trichlorofluoromethane	ND	---	0.126	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-2-4.0'-4.5' (A2D0430-03)</b>		<b>Matrix: Soil</b>			<b>Batch: 22D0439</b>			
1,3,5-Trimethylbenzene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Vinyl chloride	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
m,p-Xylene	ND	---	0.0632	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
o-Xylene	ND	---	0.0316	mg/kg dry	50	04/13/22 14:42	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	108 %	Limits:	80-120 %	1	04/13/22 14:42	5035A/8260D
Toluene-d8 (Surr)			96 %		80-120 %	1	04/13/22 14:42	5035A/8260D
4-Bromofluorobenzene (Surr)			102 %		79-120 %	1	04/13/22 14:42	5035A/8260D
<b>SB-3-6.0'-6.5' (A2D0430-05)</b>		<b>Matrix: Soil</b>			<b>Batch: 22D0439</b>			
Acetone	ND	---	1.27	mg/kg dry	50	04/13/22 15:36	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Benzene	ND	---	0.0127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Bromobenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Bromochloromethane	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Bromodichloromethane	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Bromoform	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Bromomethane	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
2-Butanone (MEK)	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
n-Butylbenzene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
sec-Butylbenzene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
tert-Butylbenzene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Carbon disulfide	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Carbon tetrachloride	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Chlorobenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Chloroethane	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Chloroform	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Chloromethane	ND	---	0.317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
2-Chlorotoluene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
4-Chlorotoluene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Dibromochloromethane	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Dibromomethane	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-3-6.0'-6.5' (A2D0430-05)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
1,3-Dichlorobenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Ethylbenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Hexachlorobutadiene	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
2-Hexanone	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Isopropylbenzene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Methylene chloride	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Naphthalene	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
n-Propylbenzene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Styrene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Toluene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SB-3-6.0'-6.5' (A2D0430-05)				Matrix: Soil	Batch: 22D0439			
Trichloroethene (TCE)	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Trichlorofluoromethane	ND	---	0.127	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Vinyl chloride	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
m,p-Xylene	ND	---	0.0633	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
o-Xylene	ND	---	0.0317	mg/kg dry	50	04/13/22 15:36	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %	1	04/13/22 15:36	5035A/8260D	
Toluene-d8 (Surr)		95 %		80-120 %	1	04/13/22 15:36	5035A/8260D	
4-Bromofluorobenzene (Surr)		104 %		79-120 %	1	04/13/22 15:36	5035A/8260D	
SB-4-4.0'-4.5' (A2D0430-07)				Matrix: Soil	Batch: 22D0439			
Acetone	ND	---	1.06	mg/kg dry	50	04/13/22 16:03	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Benzene	ND	---	0.0106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Bromobenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Bromochloromethane	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Bromodichloromethane	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Bromoform	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Bromomethane	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
2-Butanone (MEK)	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
n-Butylbenzene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
sec-Butylbenzene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
tert-Butylbenzene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Carbon disulfide	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Carbon tetrachloride	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Chlorobenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Chloroethane	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Chloroform	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Chloromethane	ND	---	0.266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
2-Chlorotoluene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
4-Chlorotoluene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Dibromochloromethane	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-4-4.0'-4.5' (A2D0430-07)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
1,2-Dibromo-3-chloropropane	ND	---	0.266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Dibromomethane	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
<b>cis-1,2-Dichloroethene</b>	<b>0.261</b>	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Ethylbenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Hexachlorobutadiene	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
2-Hexanone	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Isopropylbenzene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Methylene chloride	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	0.531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Naphthalene	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
n-Propylbenzene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Styrene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Toluene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	

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Philip Nerenberg, Lab Director



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SLR Corporation-Bothell

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Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-4-4.0'-4.5' (A2D0430-07)</b>		<b>Matrix: Soil</b>			<b>Batch: 22D0439</b>			
1,2,3-Trichlorobenzene	ND	---	0.266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Trichlorofluoromethane	ND	---	0.106	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Vinyl chloride	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
m,p-Xylene	ND	---	0.0531	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
o-Xylene	ND	---	0.0266	mg/kg dry	50	04/13/22 16:03	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	108 %	Limits: 80-120 %	1	04/13/22 16:03	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	04/13/22 16:03	5035A/8260D	
4-Bromofluorobenzene (Surr)			104 %	79-120 %	1	04/13/22 16:03	5035A/8260D	
<b>SB-4-16.0'-16.5' (A2D0430-08)</b>		<b>Matrix: Soil</b>			<b>Batch: 22D0831</b>			
Acetone	ND	---	1.33	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Acrylonitrile	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Benzene	ND	---	0.0133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Bromobenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Bromochloromethane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Bromodichloromethane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Bromoform	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Bromomethane	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
2-Butanone (MEK)	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
n-Butylbenzene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
sec-Butylbenzene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
tert-Butylbenzene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Carbon disulfide	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Carbon tetrachloride	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Chlorobenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Chloroethane	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Chloroform	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-4-16.0'-16.5' (A2D0430-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0831</b>		
Chloromethane	ND	---	0.333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
2-Chlorotoluene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
4-Chlorotoluene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Dibromochloromethane	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Dibromomethane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Ethylbenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Hexachlorobutadiene	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
2-Hexanone	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Isopropylbenzene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Methylene chloride	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	0.667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Naphthalene	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
n-Propylbenzene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Styrene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-4-16.0'-16.5' (A2D0430-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0831</b>		
1,1,1,2-Tetrachloroethane	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Toluene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Trichlorofluoromethane	ND	---	0.133	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Vinyl chloride	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
m,p-Xylene	ND	---	0.0667	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
o-Xylene	ND	---	0.0333	mg/kg dry	50	04/21/22 15:20	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	111 %	Limits: 80-120 %	1	04/21/22 15:20	5035A/8260D	
Toluene-d8 (Surr)			101 %	80-120 %	1	04/21/22 15:20	5035A/8260D	
4-Bromofluorobenzene (Surr)			98 %	79-120 %	1	04/21/22 15:20	5035A/8260D	
<b>SB-5-4.5'-5.0' (A2D0430-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Acetone	ND	---	1.03	mg/kg dry	50	04/13/22 16:30	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Benzene	ND	---	0.0103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Bromobenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Bromochloromethane	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Bromodichloromethane	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Bromoform	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Bromomethane	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
2-Butanone (MEK)	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
n-Butylbenzene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
sec-Butylbenzene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
tert-Butylbenzene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Carbon disulfide	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	

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Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**  
22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**  
Project Number: **101.20841.00001**  
Project Manager: **Mike Staton****Report ID:**  
**A2D0430 - 04 29 22 1307****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-5-4.5'-5.0' (A2D0430-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Carbon tetrachloride	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Chlorobenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Chloroethane	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Chloroform	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Chloromethane	ND	---	0.258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
2-Chlorotoluene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
4-Chlorotoluene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Dibromochloromethane	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Dibromomethane	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Ethylbenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Hexachlorobutadiene	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
2-Hexanone	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Isopropylbenzene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Methylene chloride	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-5-4.5'-5.0' (A2D0430-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Methyl tert-butyl ether (MTBE)	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Naphthalene	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
n-Propylbenzene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Styrene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Toluene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Trichlorofluoromethane	ND	---	0.103	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
Vinyl chloride	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
m,p-Xylene	ND	---	0.0515	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
o-Xylene	ND	---	0.0258	mg/kg dry	50	04/13/22 16:30	5035A/8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/13/22 16:30</i>	<i>5035A/8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/13/22 16:30</i>	<i>5035A/8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>103 %</i>		<i>79-120 %</i>	<i>1</i>	<i>04/13/22 16:30</i>	<i>5035A/8260D</i>	

**MW-1-13.0'-13.5' (A2D0430-11)****Matrix: Soil****Batch: 22D0439**

Acetone	ND	---	1.37	mg/kg dry	50	04/13/22 16:57	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Benzene	ND	---	0.0137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Bromobenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Bromochloromethane	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Bromodichloromethane	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Bromoform	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Bromomethane	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
2-Butanone (MEK)	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-13.0'-13.5' (A2D0430-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
n-Butylbenzene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
sec-Butylbenzene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
tert-Butylbenzene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Carbon disulfide	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Carbon tetrachloride	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Chlorobenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Chloroethane	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Chloroform	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Chloromethane	ND	---	0.343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
2-Chlorotoluene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
4-Chlorotoluene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Dibromochloromethane	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Dibromomethane	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
cis-1,2-Dichloroethene	<b>0.110</b>	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Ethylbenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Hexachlorobutadiene	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
2-Hexanone	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-13.0'-13.5' (A2D0430-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Isopropylbenzene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Methylene chloride	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	0.687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Naphthalene	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
n-Propylbenzene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Styrene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Toluene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Trichlorofluoromethane	ND	---	0.137	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Vinyl chloride	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
m,p-Xylene	ND	---	0.0687	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
o-Xylene	ND	---	0.0343	mg/kg dry	50	04/13/22 16:57	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	109 %	Limits:	80-120 %	1	04/13/22 16:57	5035A/8260D
Toluene-d8 (Surr)			96 %		80-120 %	1	04/13/22 16:57	5035A/8260D
4-Bromofluorobenzene (Surr)			102 %		79-120 %	1	04/13/22 16:57	5035A/8260D

**MW-1.22.5'-23.0' (A2D0430-12)****Matrix: Soil****Batch: 22D0831**

Acetone	ND	---	1.26	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Acrylonitrile	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Benzene	ND	---	0.0126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Bromobenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Bromochloromethane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1.22.5'-23.0' (A2D0430-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0831</b>		
Bromodichloromethane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Bromoform	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Bromomethane	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
2-Butanone (MEK)	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
n-Butylbenzene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
sec-Butylbenzene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
tert-Butylbenzene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Carbon disulfide	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Carbon tetrachloride	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Chlorobenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Chloroethane	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Chloroform	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Chloromethane	ND	---	0.316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
2-Chlorotoluene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
4-Chlorotoluene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Dibromochloromethane	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Dibromomethane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1.22.5'-23.0' (A2D0430-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0831</b>		
trans-1,3-Dichloropropene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Ethylbenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Hexachlorobutadiene	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
2-Hexanone	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Isopropylbenzene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Methylene chloride	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Naphthalene	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
n-Propylbenzene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Styrene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Toluene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Trichlorofluoromethane	ND	---	0.126	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Vinyl chloride	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
m,p-Xylene	ND	---	0.0632	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
o-Xylene	ND	---	0.0316	mg/kg dry	50	04/21/22 15:47	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 111 %		Limits: 80-120 %	1	04/21/22 15:47	5035A/8260D	
Toluene-d8 (Surr)		101 %		80-120 %	1	04/21/22 15:47	5035A/8260D	
4-Bromofluorobenzene (Surr)		97 %		79-120 %	1	04/21/22 15:47	5035A/8260D	

## MW-2-6.0'-6.5' (A2D0430-13)

Matrix: Soil

Batch: 22D0439

Acetone	ND	---	1.54	mg/kg dry	50	04/13/22 17:24	5035A/8260D	ICV-02
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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2-6.0'-6.5' (A2D0430-13)				Matrix: Soil		Batch: 22D0439		
Acrylonitrile	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Benzene	ND	---	0.0154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Bromobenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Bromochloromethane	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Bromodichloromethane	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Bromoform	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Bromomethane	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
2-Butanone (MEK)	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
n-Butylbenzene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
sec-Butylbenzene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
tert-Butylbenzene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Carbon disulfide	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Carbon tetrachloride	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Chlorobenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Chloroethane	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Chloroform	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Chloromethane	ND	---	0.386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
2-Chlorotoluene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
4-Chlorotoluene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Dibromochloromethane	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Dibromomethane	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1-Dichloroethene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2-6.0'-6.5' (A2D0430-13)				Matrix: Soil		Batch: 22D0439		
1,3-Dichloropropane	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Ethylbenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Hexachlorobutadiene	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
2-Hexanone	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Isopropylbenzene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Methylene chloride	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	0.772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Naphthalene	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
n-Propylbenzene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Styrene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Toluene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Trichlorofluoromethane	ND	---	0.154	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Vinyl chloride	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
m,p-Xylene	ND	---	0.0772	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
o-Xylene	ND	---	0.0386	mg/kg dry	50	04/13/22 17:24	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %	1	04/13/22 17:24	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-6.0'-6.5' (A2D0430-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Surrogate: Toluene-d8 (Surr)		Recovery: 95 %	Limits: 80-120 %	1		04/13/22 17:24	5035A/8260D	
4-Bromofluorobenzene (Surr)		102 %	79-120 %	1		04/13/22 17:24	5035A/8260D	
<b>MW-3-8.5'-9.0' (A2D0430-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Acetone	ND	---	1.93	mg/kg dry	50	04/13/22 17:51	5035A/8260D	ICV-02
Acrylonitrile	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Benzene	ND	---	0.0193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Bromobenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Bromochloromethane	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Bromodichloromethane	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Bromoform	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Bromomethane	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
2-Butanone (MEK)	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
n-Butylbenzene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
sec-Butylbenzene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
tert-Butylbenzene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Carbon disulfide	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Carbon tetrachloride	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Chlorobenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Chloroethane	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Chloroform	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Chloromethane	ND	---	0.482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
2-Chlorotoluene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
4-Chlorotoluene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Dibromochloromethane	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	---	0.482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Dibromomethane	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2-Dichlorobenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,3-Dichlorobenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,4-Dichlorobenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Dichlorodifluoromethane	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,1-Dichloroethane	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-8.5'-9.0' (A2D0430-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
1,1-Dichloroethene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
cis-1,2-Dichloroethene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
trans-1,2-Dichloroethene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2-Dichloropropane	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,3-Dichloropropane	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
2,2-Dichloropropane	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,1-Dichloropropene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
cis-1,3-Dichloropropene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
trans-1,3-Dichloropropene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Ethylbenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Hexachlorobutadiene	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
2-Hexanone	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Isopropylbenzene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
4-Isopropyltoluene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Methylene chloride	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	0.964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Naphthalene	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
n-Propylbenzene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Styrene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Tetrachloroethene (PCE)	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Toluene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2,3-Trichlorobenzene	ND	---	0.482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2,4-Trichlorobenzene	ND	---	0.482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,1,1-Trichloroethane	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,1,2-Trichloroethane	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Trichloroethene (TCE)	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Trichlorofluoromethane	ND	---	0.193	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2,3-Trichloropropane	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,2,4-Trimethylbenzene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
1,3,5-Trimethylbenzene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	

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Philip Nerenberg, Lab Director



# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

### Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-8.5'-9.0' (A2D0430-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0439</b>		
Vinyl chloride	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
m,p-Xylene	ND	---	0.0964	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
o-Xylene	ND	---	0.0482	mg/kg dry	50	04/13/22 17:51	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 80-120 %	1	04/13/22 17:51	5035A/8260D	
Toluene-d8 (Surr)		97 %		80-120 %	1	04/13/22 17:51	5035A/8260D	
4-Bromofluorobenzene (Surr)		102 %		79-120 %	1	04/13/22 17:51	5035A/8260D	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## ANALYTICAL SAMPLE RESULTS

## Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>SB-1-4.5'-5.0' (A2D0430-01)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	89.9	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>SB-2-4.0'-4.5' (A2D0430-03)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	82.2	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>SB-3-6.0'-6.5' (A2D0430-05)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	85.9	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>SB-4-4.0'-4.5' (A2D0430-07)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	90.6	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>SB-4-16.0'-16.5' (A2D0430-08)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0819</b>		
% Solids	81.7	---	1.00	%	1	04/22/22 10:16	EPA 8000D	
<b>SB-5-4.5'-5.0' (A2D0430-10)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	92.5	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>MW-1-13.0'-13.5' (A2D0430-11)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	83.8	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>MW-1-22.5'-23.0' (A2D0430-12)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0819</b>		
% Solids	85.7	---	1.00	%	1	04/22/22 10:16	EPA 8000D	
<b>MW-2-6.0'-6.5' (A2D0430-13)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	73.8	---	1.00	%	1	04/14/22 09:56	EPA 8000D	
<b>MW-3-8.5'-9.0' (A2D0430-15)</b>				<b>Matrix: Soil</b>		<b>Batch: 22D0473</b>		
% Solids	68.5	---	1.00	%	1	04/14/22 09:56	EPA 8000D	

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Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
Blank (22D0439-BLK1)			Prepared: 04/13/22 08:00		Analyzed: 04/13/22 10:39							
5035A/8260D												
Acetone	ND	---	0.667	mg/kg wet	50	---	---	---	---	---	---	ICV-02
Acrylonitrile	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
Blank (22D0439-BLK1)			Prepared: 04/13/22 08:00		Analyzed: 04/13/22 10:39							
1,2-Dichloropropane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

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# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A							Soil					
Blank (22D0439-BLK1)			Prepared: 04/13/22 08:00		Analyzed: 04/13/22 10:39							
Surr: Toluene-d8 (Surr)			Recovery: 99 %		Limits: 80-120 %		Dilution: 1x					
4-Bromofluorobenzene (Surr)			99 %		79-120 %		"					
LCS (22D0439-BS1)			Prepared: 04/13/22 08:00		Analyzed: 04/13/22 09:41							
5035A/8260D												
Acetone	1.31	---	1.00	mg/kg wet	50	2.00	---	65	80-120%	---	---	ICV-02, Q-55
Acrylonitrile	1.01	---	0.100	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Benzene	1.00	---	0.0100	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Bromobenzene	0.974	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Bromochloromethane	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Bromodichloromethane	0.963	---	0.100	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Bromoform	0.953	---	0.100	mg/kg wet	50	1.00	---	95	80-120%	---	---	
Bromomethane	1.04	---	0.500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
2-Butanone (MEK)	1.63	---	0.500	mg/kg wet	50	2.00	---	81	80-120%	---	---	
n-Butylbenzene	1.05	---	0.0500	mg/kg wet	50	1.00	---	105	80-120%	---	---	
sec-Butylbenzene	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
tert-Butylbenzene	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Carbon disulfide	0.936	---	0.500	mg/kg wet	50	1.00	---	94	80-120%	---	---	
Carbon tetrachloride	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Chlorobenzene	0.984	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Chloroethane	1.04	---	0.500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Chloroform	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
Chloromethane	0.906	---	0.250	mg/kg wet	50	1.00	---	91	80-120%	---	---	
2-Chlorotoluene	1.02	---	0.0500	mg/kg wet	50	1.00	---	102	80-120%	---	---	
4-Chlorotoluene	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Dibromochloromethane	0.944	---	0.100	mg/kg wet	50	1.00	---	94	80-120%	---	---	
1,2-Dibromo-3-chloropropane	0.939	---	0.250	mg/kg wet	50	1.00	---	94	80-120%	---	---	
1,2-Dibromoethane (EDB)	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
Dibromomethane	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
1,2-Dichlorobenzene	0.999	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,3-Dichlorobenzene	1.00	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,4-Dichlorobenzene	0.992	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Dichlorodifluoromethane	0.954	---	0.100	mg/kg wet	50	1.00	---	95	80-120%	---	---	
1,1-Dichloroethane	0.998	---	0.0250	mg/kg wet	50	1.00	---	100	80-120%	---	---	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
LCS (22D0439-BS1)			Prepared: 04/13/22 08:00		Analyzed: 04/13/22 09:41							
1,2-Dichloroethane (EDC)	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
1,1-Dichloroethene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
cis-1,2-Dichloroethene	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	1.04	---	0.0250	mg/kg wet	50	1.00	---	104	80-120%	---	---	
1,2-Dichloropropane	0.977	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
1,3-Dichloropropane	0.969	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
2,2-Dichloropropane	1.16	---	0.0500	mg/kg wet	50	1.00	---	116	80-120%	---	---	
1,1-Dichloropropene	1.07	---	0.0500	mg/kg wet	50	1.00	---	107	80-120%	---	---	
cis-1,3-Dichloropropene	0.989	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
trans-1,3-Dichloropropene	0.974	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Ethylbenzene	0.986	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Hexachlorobutadiene	1.04	---	0.100	mg/kg wet	50	1.00	---	104	80-120%	---	---	
2-Hexanone	1.63	---	0.500	mg/kg wet	50	2.00	---	81	80-120%	---	---	
Isopropylbenzene	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80-120%	---	---	
4-Isopropyltoluene	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80-120%	---	---	
Methylene chloride	0.952	---	0.500	mg/kg wet	50	1.00	---	95	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.97	---	0.500	mg/kg wet	50	2.00	---	99	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1.00	---	0.0500	mg/kg wet	50	1.00	---	100	80-120%	---	---	
Naphthalene	0.944	---	0.100	mg/kg wet	50	1.00	---	94	80-120%	---	---	
n-Propylbenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Styrene	0.958	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	0.980	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1.16	---	0.0500	mg/kg wet	50	1.00	---	116	80-120%	---	---	
Tetrachloroethene (PCE)	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Toluene	0.986	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	1.00	---	0.250	mg/kg wet	50	1.00	---	100	80-120%	---	---	
1,2,4-Trichlorobenzene	0.974	---	0.250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,1,1-Trichloroethane	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80-120%	---	---	
1,1,2-Trichloroethane	1.02	---	0.0250	mg/kg wet	50	1.00	---	102	80-120%	---	---	
Trichloroethene (TCE)	0.931	---	0.0250	mg/kg wet	50	1.00	---	93	80-120%	---	---	
Trichlorofluoromethane	1.12	---	0.100	mg/kg wet	50	1.00	---	112	80-120%	---	---	
1,2,3-Trichloropropane	0.974	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,2,4-Trimethylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
1,3,5-Trimethylbenzene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
LCS (22D0439-BS1)			Prepared: 04/13/22 08:00		Analyzed: 04/13/22 09:41							
Vinyl chloride	0.984	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
m,p-Xylene	2.03	---	0.0500	mg/kg wet	50	2.00	---	102	80-120%	---	---	
o-Xylene	1.03	---	0.0250	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		79-120 %		"						
Duplicate (22D0439-DUP1)			Prepared: 04/08/22 09:41		Analyzed: 04/13/22 15:09							
QC Source Sample: SB-2-4.0'-4.5' (A2D0430-03)												
5035A/8260D												
Acetone	ND	---	1.26	mg/kg dry	50	---	ND	---	---	---	30%	ICV-02
Acrylonitrile	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	---	0.0126	mg/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	---	0.316	mg/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	0.316	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	

Apex Laboratories

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
Duplicate (22D0439-DUP1)			Prepared: 04/08/22 09:41    Analyzed: 04/13/22 15:09									
QC Source Sample: SB-2-4.0'-4.5' (A2D0430-03)												
1,2-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.632	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.316	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	0.316	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
Duplicate (22D0439-DUP1)			Prepared: 04/08/22 09:41		Analyzed: 04/13/22 15:09							
QC Source Sample: SB-2-4.0'-4.5' (A2D0430-03)												
1,1,2-Trichloroethane	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.126	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0632	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0316	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		79-120 %		"						

Matrix Spike (22D0439-MS1)

Prepared: 04/06/22 14:13 Analyzed: 04/13/22 18:18

QC Source Sample: MW-3-8.5'-9.0' (A2D0430-15)5035A/8260D

Acetone	ND	---	1.93	mg/kg dry	50	3.85	ND		36-164%	---	---	ICV-02, Q-54d
Acrylonitrile	1.78	---	0.193	mg/kg dry	50	1.93	ND	92	65-134%	---	---	
Benzene	1.85	---	0.0193	mg/kg dry	50	1.93	ND	96	77-121%	---	---	
Bromobenzene	1.74	---	0.0482	mg/kg dry	50	1.93	ND	90	78-121%	---	---	
Bromochloromethane	1.76	---	0.0964	mg/kg dry	50	1.93	ND	91	78-125%	---	---	
Bromodichloromethane	1.66	---	0.193	mg/kg dry	50	1.93	ND	86	75-127%	---	---	
Bromoform	1.59	---	0.193	mg/kg dry	50	1.93	ND	82	67-132%	---	---	
Bromomethane	2.11	---	0.964	mg/kg dry	50	1.93	ND	110	53-143%	---	---	
2-Butanone (MEK)	2.57	---	0.964	mg/kg dry	50	3.85	ND	67	51-148%	---	---	
n-Butylbenzene	1.81	---	0.0964	mg/kg dry	50	1.93	ND	94	70-128%	---	---	
sec-Butylbenzene	1.85	---	0.0964	mg/kg dry	50	1.93	ND	96	73-126%	---	---	
tert-Butylbenzene	1.73	---	0.0964	mg/kg dry	50	1.93	ND	90	73-125%	---	---	
Carbon disulfide	1.73	---	0.964	mg/kg dry	50	1.93	ND	90	63-132%	---	---	
Carbon tetrachloride	1.78	---	0.0964	mg/kg dry	50	1.93	ND	92	70-135%	---	---	
Chlorobenzene	1.71	---	0.0482	mg/kg dry	50	1.93	ND	89	79-120%	---	---	
Chloroethane	1.70	---	0.964	mg/kg dry	50	1.93	ND	88	59-139%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
Matrix Spike (22D0439-MS1)			Prepared: 04/06/22 14:13    Analyzed: 04/13/22 18:18									
QC Source Sample: MW-3-8.5'-9.0' (A2D0430-15)												
Chloroform	1.89	---	0.0964	mg/kg dry	50	1.93	ND	98	78-123%	---	---	
Chloromethane	1.57	---	0.482	mg/kg dry	50	1.93	ND	82	50-136%	---	---	
2-Chlorotoluene	1.82	---	0.0964	mg/kg dry	50	1.93	ND	95	75-122%	---	---	
4-Chlorotoluene	1.74	---	0.0964	mg/kg dry	50	1.93	ND	91	72-124%	---	---	
Dibromochloromethane	1.63	---	0.193	mg/kg dry	50	1.93	ND	85	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1.54	---	0.482	mg/kg dry	50	1.93	ND	80	61-132%	---	---	
1,2-Dibromoethane (EDB)	1.79	---	0.0964	mg/kg dry	50	1.93	ND	93	78-122%	---	---	
Dibromomethane	1.86	---	0.0964	mg/kg dry	50	1.93	ND	97	78-125%	---	---	
1,2-Dichlorobenzene	1.69	---	0.0482	mg/kg dry	50	1.93	ND	88	78-121%	---	---	
1,3-Dichlorobenzene	1.76	---	0.0482	mg/kg dry	50	1.93	ND	92	77-121%	---	---	
1,4-Dichlorobenzene	1.69	---	0.0482	mg/kg dry	50	1.93	ND	88	75-120%	---	---	
Dichlorodifluoromethane	1.70	---	0.193	mg/kg dry	50	1.93	ND	89	29-149%	---	---	
1,1-Dichloroethane	1.78	---	0.0482	mg/kg dry	50	1.93	ND	92	76-125%	---	---	
1,2-Dichloroethane (EDC)	1.63	---	0.0482	mg/kg dry	50	1.93	ND	85	73-128%	---	---	
1,1-Dichloroethene	1.82	---	0.0482	mg/kg dry	50	1.93	ND	94	70-131%	---	---	
cis-1,2-Dichloroethene	1.85	---	0.0482	mg/kg dry	50	1.93	ND	96	77-123%	---	---	
trans-1,2-Dichloroethene	1.87	---	0.0482	mg/kg dry	50	1.93	ND	97	74-125%	---	---	
1,2-Dichloropropane	1.78	---	0.0482	mg/kg dry	50	1.93	ND	93	76-123%	---	---	
1,3-Dichloropropane	1.61	---	0.0964	mg/kg dry	50	1.93	ND	84	77-121%	---	---	
2,2-Dichloropropane	1.80	---	0.0964	mg/kg dry	50	1.93	ND	93	67-133%	---	---	
1,1-Dichloropropene	1.97	---	0.0964	mg/kg dry	50	1.93	ND	102	76-125%	---	---	
cis-1,3-Dichloropropene	1.60	---	0.0964	mg/kg dry	50	1.93	ND	83	74-126%	---	---	
trans-1,3-Dichloropropene	1.53	---	0.0964	mg/kg dry	50	1.93	ND	80	71-130%	---	---	
Ethylbenzene	1.68	---	0.0482	mg/kg dry	50	1.93	ND	87	76-122%	---	---	
Hexachlorobutadiene	1.83	---	0.193	mg/kg dry	50	1.93	ND	95	61-135%	---	---	
2-Hexanone	2.45	---	0.964	mg/kg dry	50	3.85	ND	64	53-145%	---	---	
Isopropylbenzene	1.96	---	0.0964	mg/kg dry	50	1.93	ND	102	68-134%	---	---	
4-Isopropyltoluene	1.93	---	0.0964	mg/kg dry	50	1.93	ND	100	73-127%	---	---	
Methylene chloride	1.75	---	0.964	mg/kg dry	50	1.93	ND	91	70-128%	---	---	
4-Methyl-2-pentanone (MiBK)	3.03	---	0.964	mg/kg dry	50	3.85	ND	79	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1.75	---	0.0964	mg/kg dry	50	1.93	ND	91	73-125%	---	---	
Naphthalene	1.56	---	0.193	mg/kg dry	50	1.93	ND	81	62-129%	---	---	
n-Propylbenzene	1.73	---	0.0482	mg/kg dry	50	1.93	ND	90	73-125%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0439 - EPA 5035A						Soil						
Matrix Spike (22D0439-MS1)			Prepared: 04/06/22 14:13    Analyzed: 04/13/22 18:18									
QC Source Sample: MW-3-8.5'-9.0' (A2D0430-15)												
Styrene	1.68	---	0.0964	mg/kg dry	50	1.93	ND	87	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1.67	---	0.0482	mg/kg dry	50	1.93	ND	87	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1.90	---	0.0964	mg/kg dry	50	1.93	ND	99	70-124%	---	---	
Tetrachloroethene (PCE)	1.80	---	0.0482	mg/kg dry	50	1.93	ND	93	73-128%	---	---	
Toluene	1.70	---	0.0964	mg/kg dry	50	1.93	ND	88	77-121%	---	---	
1,2,3-Trichlorobenzene	1.72	---	0.482	mg/kg dry	50	1.93	ND	89	66-130%	---	---	
1,2,4-Trichlorobenzene	1.69	---	0.482	mg/kg dry	50	1.93	ND	88	67-129%	---	---	
1,1,1-Trichloroethane	1.92	---	0.0482	mg/kg dry	50	1.93	ND	100	73-130%	---	---	
1,1,2-Trichloroethane	1.72	---	0.0482	mg/kg dry	50	1.93	ND	89	78-121%	---	---	
Trichloroethene (TCE)	1.75	---	0.0482	mg/kg dry	50	1.93	ND	91	77-123%	---	---	
Trichlorofluoromethane	1.76	---	0.193	mg/kg dry	50	1.93	ND	92	62-140%	---	---	
1,2,3-Trichloropropane	1.56	---	0.0964	mg/kg dry	50	1.93	ND	81	73-125%	---	---	
1,2,4-Trimethylbenzene	1.84	---	0.0964	mg/kg dry	50	1.93	ND	96	75-123%	---	---	
1,3,5-Trimethylbenzene	1.81	---	0.0964	mg/kg dry	50	1.93	ND	94	73-124%	---	---	
Vinyl chloride	1.83	---	0.0482	mg/kg dry	50	1.93	ND	95	56-135%	---	---	
m,p-Xylene	3.46	---	0.0964	mg/kg dry	50	3.85	ND	90	77-124%	---	---	
o-Xylene	1.78	---	0.0482	mg/kg dry	50	1.93	ND	92	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		96 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		79-120 %		"						

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503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Blank (22D0831-BLK1)			Prepared: 04/21/22 08:00		Analyzed: 04/21/22 14:54							
5035A/8260D												
Acetone	ND	---	0.667	mg/kg wet	50	---	---	---	---	---	---	
Acrylonitrile	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Benzene	ND	---	0.00667	mg/kg wet	50	---	---	---	---	---	---	
Bromobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Bromochloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromodichloromethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Bromoform	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
Bromomethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
n-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Carbon disulfide	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Chloroethane	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Chloroform	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Chloromethane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromochloromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Dibromomethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Blank (22D0831-BLK1)			Prepared: 04/21/22 08:00		Analyzed: 04/21/22 14:54							
1,2-Dichloropropane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
2-Hexanone	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Isopropylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Methylene chloride	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	0.333	mg/kg wet	50	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Naphthalene	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Styrene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.167	mg/kg wet	50	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	0.0667	mg/kg wet	50	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
m,p-Xylene	ND	---	0.0333	mg/kg wet	50	---	---	---	---	---	---	
o-Xylene	ND	---	0.0167	mg/kg wet	50	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 110 %		Limits: 80-120 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Blank (22D0831-BLK1)			Prepared: 04/21/22 08:00		Analyzed: 04/21/22 14:54							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		99 %		79-120 %		"						
LCS (22D0831-BS1)			Prepared: 04/21/22 08:00		Analyzed: 04/21/22 14:00							
5035A/8260D												
Acetone	1.43	---	1.00	mg/kg wet	50	2.00	---	71	80-120%	---	---	Q-55
Acrylonitrile	1.05	---	0.100	mg/kg wet	50	1.00	---	105	80-120%	---	---	
Benzene	1.15	---	0.0100	mg/kg wet	50	1.00	---	115	80-120%	---	---	
Bromobenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Bromochloromethane	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
Bromodichloromethane	1.03	---	0.0500	mg/kg wet	50	1.00	---	103	80-120%	---	---	
Bromoform	0.979	---	0.100	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Bromomethane	1.86	---	0.500	mg/kg wet	50	1.00	---	186	80-120%	---	---	Q-56
2-Butanone (MEK)	1.83	---	0.500	mg/kg wet	50	2.00	---	92	80-120%	---	---	
n-Butylbenzene	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80-120%	---	---	
sec-Butylbenzene	0.986	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
tert-Butylbenzene	0.897	---	0.0500	mg/kg wet	50	1.00	---	90	80-120%	---	---	
Carbon disulfide	0.932	---	0.500	mg/kg wet	50	1.00	---	93	80-120%	---	---	
Carbon tetrachloride	1.04	---	0.0500	mg/kg wet	50	1.00	---	104	80-120%	---	---	
Chlorobenzene	0.993	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
Chloroethane	2.76	---	0.500	mg/kg wet	50	1.00	---	276	80-120%	---	---	ICV-01, Q-56
Chloroform	1.11	---	0.0500	mg/kg wet	50	1.00	---	111	80-120%	---	---	
Chloromethane	1.18	---	0.250	mg/kg wet	50	1.00	---	118	80-120%	---	---	
2-Chlorotoluene	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
4-Chlorotoluene	0.969	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
Dibromochloromethane	0.923	---	0.100	mg/kg wet	50	1.00	---	92	80-120%	---	---	
1,2-Dibromo-3-chloropropane	0.826	---	0.250	mg/kg wet	50	1.00	---	83	80-120%	---	---	
1,2-Dibromoethane (EDB)	1.06	---	0.0500	mg/kg wet	50	1.00	---	106	80-120%	---	---	
Dibromomethane	1.10	---	0.0500	mg/kg wet	50	1.00	---	110	80-120%	---	---	
1,2-Dichlorobenzene	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
1,3-Dichlorobenzene	0.987	---	0.0250	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,4-Dichlorobenzene	0.977	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Dichlorodifluoromethane	1.19	---	0.100	mg/kg wet	50	1.00	---	119	80-120%	---	---	ICV-01
1,1-Dichloroethane	1.13	---	0.0250	mg/kg wet	50	1.00	---	113	80-120%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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503-718-2323

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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
LCS (22D0831-BS1)			Prepared: 04/21/22 08:00		Analyzed: 04/21/22 14:00							
1,2-Dichloroethane (EDC)	1.05	---	0.0250	mg/kg wet	50	1.00	---	105	80-120%	---	---	
1,1-Dichloroethene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80-120%	---	---	
cis-1,2-Dichloroethene	1.09	---	0.0250	mg/kg wet	50	1.00	---	109	80-120%	---	---	
trans-1,2-Dichloroethene	1.07	---	0.0250	mg/kg wet	50	1.00	---	107	80-120%	---	---	
1,2-Dichloropropane	1.14	---	0.0250	mg/kg wet	50	1.00	---	114	80-120%	---	---	
1,3-Dichloropropane	1.08	---	0.0500	mg/kg wet	50	1.00	---	108	80-120%	---	---	
2,2-Dichloropropane	0.975	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,1-Dichloropropene	1.09	---	0.0500	mg/kg wet	50	1.00	---	109	80-120%	---	---	
cis-1,3-Dichloropropene	0.896	---	0.0500	mg/kg wet	50	1.00	---	90	80-120%	---	---	
trans-1,3-Dichloropropene	0.883	---	0.0500	mg/kg wet	50	1.00	---	88	80-120%	---	---	
Ethylbenzene	0.957	---	0.0250	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Hexachlorobutadiene	0.994	---	0.100	mg/kg wet	50	1.00	---	99	80-120%	---	---	
2-Hexanone	1.67	---	0.500	mg/kg wet	50	2.00	---	84	80-120%	---	---	
Isopropylbenzene	0.985	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
4-Isopropyltoluene	0.962	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	
Methylene chloride	1.13	---	0.500	mg/kg wet	50	1.00	---	113	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	1.82	---	0.500	mg/kg wet	50	2.00	---	91	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	1.01	---	0.0500	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Naphthalene	0.856	---	0.100	mg/kg wet	50	1.00	---	86	80-120%	---	---	
n-Propylbenzene	0.985	---	0.0250	mg/kg wet	50	1.00	---	98	80-120%	---	---	
Styrene	0.988	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,1,1,2-Tetrachloroethane	0.968	---	0.0250	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,1,2,2-Tetrachloroethane	1.12	---	0.0500	mg/kg wet	50	1.00	---	112	80-120%	---	---	
Tetrachloroethene (PCE)	1.01	---	0.0250	mg/kg wet	50	1.00	---	101	80-120%	---	---	
Toluene	0.993	---	0.0500	mg/kg wet	50	1.00	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	0.960	---	0.250	mg/kg wet	50	1.00	---	96	80-120%	---	---	
1,2,4-Trichlorobenzene	0.948	---	0.250	mg/kg wet	50	1.00	---	95	80-120%	---	---	
1,1,1-Trichloroethane	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80-120%	---	---	
1,1,2-Trichloroethane	1.06	---	0.0250	mg/kg wet	50	1.00	---	106	80-120%	---	---	
Trichloroethene (TCE)	1.08	---	0.0250	mg/kg wet	50	1.00	---	108	80-120%	---	---	
Trichlorofluoromethane	2.39	---	0.100	mg/kg wet	50	1.00	---	239	80-120%	---	---	Q-56
1,2,3-Trichloropropane	0.975	---	0.0500	mg/kg wet	50	1.00	---	97	80-120%	---	---	
1,2,4-Trimethylbenzene	0.941	---	0.0500	mg/kg wet	50	1.00	---	94	80-120%	---	---	
1,3,5-Trimethylbenzene	0.960	---	0.0500	mg/kg wet	50	1.00	---	96	80-120%	---	---	Q-56

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
LCS (22D0831-BS1)			Prepared: 04/21/22 08:00		Analyzed: 04/21/22 14:00							
Vinyl chloride	1.26	---	0.0250	mg/kg wet	50	1.00	---	126	80-120%	---	---	Q-56
m,p-Xylene	1.85	---	0.0500	mg/kg wet	50	2.00	---	93	80-120%	---	---	
o-Xylene	0.914	---	0.0250	mg/kg wet	50	1.00	---	91	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		91 %		79-120 %		"						

## Duplicate (22D0831-DUP1)

Prepared: 04/14/22 12:00 Analyzed: 04/21/22 16:41

## QC Source Sample: Non-SDG (A2D0663-23)

Acetone	ND	---	1.61	mg/kg dry	50	---	ND	---	---	---	30%
Acrylonitrile	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%
Benzene	ND	---	0.0161	mg/kg dry	50	---	ND	---	---	---	30%
Bromobenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%
Bromochloromethane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Bromoform	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%
Bromomethane	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Carbon disulfide	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Chlorobenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%
Chloroethane	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%
Chloroform	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Chloromethane	ND	---	0.401	mg/kg dry	50	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	0.401	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
Dibromomethane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Duplicate (22D0831-DUP1)			Prepared: 04/14/22 12:00		Analyzed: 04/21/22 16:41							
QC Source Sample: Non-SDG (A2D0663-23)												
1,3-Dichlorobenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
Methylene chloride	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.803	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.401	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	0.401	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	

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Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Duplicate (22D0831-DUP1)			Prepared: 04/14/22 12:00   Analyzed: 04/21/22 16:41									
QC Source Sample: Non-SDG (A2D0663-23)												
Trichloroethene (TCE)	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.161	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0803	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0401	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 111 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		79-120 %		"						

Duplicate (22D0831-DUP2) Prepared: 04/13/22 16:30 Analyzed: 04/21/22 19:22

QC Source Sample: Non-SDG (A2D0663-33)												
Acetone	ND	---	1.30	mg/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	0.130	mg/kg dry	50	---	ND	---	---	---	30%	
Benzene	ND	---	0.0130	mg/kg dry	50	---	ND	---	---	---	30%	
Bromobenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Bromoform	ND	---	0.130	mg/kg dry	50	---	ND	---	---	---	30%	
Bromomethane	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Chloroethane	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
Chloroform	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Chloromethane	ND	---	0.324	mg/kg dry	50	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Duplicate (22D0831-DUP2)			Prepared: 04/13/22 16:30   Analyzed: 04/21/22 19:22									
QC Source Sample: Non-SDG (A2D0663-33)												
4-Chlorotoluene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	0.130	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	0.324	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Dibromomethane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	0.130	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	0.130	mg/kg dry	50	---	ND	---	---	---	30%	
2-Hexanone	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
4-Isopropyltoluene	0.0984	---	0.0648	mg/kg dry	50	---	0.103	---	---	5	30%	
Methylene chloride	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	0.648	mg/kg dry	50	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Naphthalene	ND	---	0.130	mg/kg dry	50	---	0.0919	---	---	***	30%	
n-Propylbenzene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Styrene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: Woodinville West

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Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Duplicate (22D0831-DUP2)			Prepared: 04/13/22 16:30    Analyzed: 04/21/22 19:22									
QC Source Sample: Non-SDG (A2D0663-33)												
Tetrachloroethene (PCE)	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	0.324	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	0.324	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	0.130	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	0.0648	mg/kg dry	50	---	ND	---	---	---	30%	
o-Xylene	ND	---	0.0324	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 111 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		79-120 %		"						

## Matrix Spike (22D0831-MS1)

Prepared: 04/14/22 14:00 Analyzed: 04/21/22 21:36

## QC Source Sample: Non-SDG (A2D0663-41)

## 5035A/8260D

Acetone	2.64	---	1.74	mg/kg dry	50	3.48	ND	76	36-164%	---	---	Q-54e
Acrylonitrile	1.86	---	0.174	mg/kg dry	50	1.74	ND	107	65-134%	---	---	
Benzene	2.15	---	0.0174	mg/kg dry	50	1.74	0.0166	123	77-121%	---	---	Q-01
Bromobenzene	1.75	---	0.0435	mg/kg dry	50	1.74	ND	101	78-121%	---	---	
Bromochloromethane	2.00	---	0.0869	mg/kg dry	50	1.74	ND	115	78-125%	---	---	
Bromodichloromethane	1.82	---	0.0869	mg/kg dry	50	1.74	ND	105	75-127%	---	---	
Bromoform	1.65	---	0.174	mg/kg dry	50	1.74	ND	95	67-132%	---	---	
Bromomethane	3.56	---	0.869	mg/kg dry	50	1.74	ND	205	53-143%	---	---	Q-54c
2-Butanone (MEK)	3.08	---	0.869	mg/kg dry	50	3.48	ND	89	51-148%	---	---	
n-Butylbenzene	1.81	---	0.0869	mg/kg dry	50	1.74	ND	104	70-128%	---	---	
sec-Butylbenzene	1.85	---	0.0869	mg/kg dry	50	1.74	ND	107	73-126%	---	---	
tert-Butylbenzene	1.67	---	0.0869	mg/kg dry	50	1.74	ND	96	73-125%	---	---	

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Philip Nerenberg, Lab Director



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Project Manager: Mike Staton

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Matrix Spike (22D0831-MS1)			Prepared: 04/14/22 14:00		Analyzed: 04/21/22 21:36							
QC Source Sample: Non-SDG (A2D0663-41)												
Carbon disulfide	1.81	---	0.869	mg/kg dry	50	1.74	ND	104	63-132%	---	---	ICV-01, Q-54a
Carbon tetrachloride	1.94	---	0.0869	mg/kg dry	50	1.74	ND	112	70-135%	---	---	
Chlorobenzene	1.77	---	0.0435	mg/kg dry	50	1.74	ND	102	79-120%	---	---	
Chloroethane	6.05	---	0.869	mg/kg dry	50	1.74	ND	348	59-139%	---	---	
Chloroform	2.03	---	0.0869	mg/kg dry	50	1.74	ND	117	78-123%	---	---	ICV-01
Chloromethane	2.36	---	0.435	mg/kg dry	50	1.74	ND	136	50-136%	---	---	
2-Chlorotoluene	1.90	---	0.0869	mg/kg dry	50	1.74	ND	109	75-122%	---	---	
4-Chlorotoluene	1.73	---	0.0869	mg/kg dry	50	1.74	ND	100	72-124%	---	---	
Dibromochloromethane	1.56	---	0.174	mg/kg dry	50	1.74	ND	90	74-126%	---	---	
1,2-Dibromo-3-chloropropane	1.46	---	0.435	mg/kg dry	50	1.74	ND	84	61-132%	---	---	
1,2-Dibromoethane (EDB)	1.81	---	0.0869	mg/kg dry	50	1.74	ND	104	78-122%	---	---	
Dibromomethane	1.93	---	0.0869	mg/kg dry	50	1.74	ND	111	78-125%	---	---	
1,2-Dichlorobenzene	1.78	---	0.0435	mg/kg dry	50	1.74	ND	103	78-121%	---	---	
1,3-Dichlorobenzene	1.75	---	0.0435	mg/kg dry	50	1.74	ND	101	77-121%	---	---	
1,4-Dichlorobenzene	1.73	---	0.0435	mg/kg dry	50	1.74	ND	100	75-120%	---	---	
Dichlorodifluoromethane	2.36	---	0.174	mg/kg dry	50	1.74	ND	136	29-149%	---	---	
1,1-Dichloroethane	2.14	---	0.0435	mg/kg dry	50	1.74	ND	123	76-125%	---	---	
1,2-Dichloroethane (EDC)	1.85	---	0.0435	mg/kg dry	50	1.74	ND	106	73-128%	---	---	
1,1-Dichloroethene	2.14	---	0.0435	mg/kg dry	50	1.74	ND	123	70-131%	---	---	
cis-1,2-Dichloroethene	2.02	---	0.0435	mg/kg dry	50	1.74	ND	116	77-123%	---	---	
trans-1,2-Dichloroethene	2.05	---	0.0435	mg/kg dry	50	1.74	ND	118	74-125%	---	---	
1,2-Dichloropropane	2.04	---	0.0435	mg/kg dry	50	1.74	ND	118	76-123%	---	---	
1,3-Dichloropropane	1.86	---	0.0869	mg/kg dry	50	1.74	ND	107	77-121%	---	---	
2,2-Dichloropropane	1.66	---	0.0869	mg/kg dry	50	1.74	ND	95	67-133%	---	---	
1,1-Dichloropropene	2.04	---	0.0869	mg/kg dry	50	1.74	ND	117	76-125%	---	---	
cis-1,3-Dichloropropene	1.54	---	0.0869	mg/kg dry	50	1.74	ND	88	74-126%	---	---	
trans-1,3-Dichloropropene	1.49	---	0.0869	mg/kg dry	50	1.74	ND	86	71-130%	---	---	
Ethylbenzene	1.74	---	0.0435	mg/kg dry	50	1.74	ND	100	76-122%	---	---	
Hexachlorobutadiene	1.84	---	0.174	mg/kg dry	50	1.74	ND	106	61-135%	---	---	
2-Hexanone	2.86	---	0.869	mg/kg dry	50	3.48	ND	82	53-145%	---	---	
Isopropylbenzene	1.80	---	0.0869	mg/kg dry	50	1.74	ND	103	68-134%	---	---	
4-Isopropyltoluene	1.79	---	0.0869	mg/kg dry	50	1.74	ND	103	73-127%	---	---	
Methylene chloride	2.07	---	0.869	mg/kg dry	50	1.74	ND	119	70-128%	---	---	

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Philip Nerenberg, Lab Director



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A2D0430 - 04 29 22 1307

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0831 - EPA 5035A						Soil						
Matrix Spike (22D0831-MS1)			Prepared: 04/14/22 14:00		Analyzed: 04/21/22 21:36							
QC Source Sample: Non-SDG (A2D0663-41)												
4-Methyl-2-pentanone (MiBK)	3.11	---	0.869	mg/kg dry	50	3.48	ND	90	65-135%	---	---	
Methyl tert-butyl ether (MTBE)	1.78	---	0.0869	mg/kg dry	50	1.74	ND	102	73-125%	---	---	
Naphthalene	1.59	---	0.174	mg/kg dry	50	1.74	ND	91	62-129%	---	---	
n-Propylbenzene	1.81	---	0.0435	mg/kg dry	50	1.74	ND	104	73-125%	---	---	
Styrene	1.76	---	0.0869	mg/kg dry	50	1.74	ND	101	76-124%	---	---	
1,1,1,2-Tetrachloroethane	1.67	---	0.0435	mg/kg dry	50	1.74	ND	96	78-125%	---	---	
1,1,2,2-Tetrachloroethane	1.90	---	0.0869	mg/kg dry	50	1.74	ND	109	70-124%	---	---	
Tetrachloroethene (PCE)	1.84	---	0.0435	mg/kg dry	50	1.74	ND	106	73-128%	---	---	
Toluene	1.81	---	0.0869	mg/kg dry	50	1.74	ND	104	77-121%	---	---	
1,2,3-Trichlorobenzene	1.70	---	0.435	mg/kg dry	50	1.74	ND	98	66-130%	---	---	
1,2,4-Trichlorobenzene	1.72	---	0.435	mg/kg dry	50	1.74	ND	99	67-129%	---	---	
1,1,1-Trichloroethane	2.02	---	0.0435	mg/kg dry	50	1.74	ND	116	73-130%	---	---	
1,1,2-Trichloroethane	1.84	---	0.0435	mg/kg dry	50	1.74	ND	106	78-121%	---	---	
Trichloroethene (TCE)	2.02	---	0.0435	mg/kg dry	50	1.74	ND	116	77-123%	---	---	
Trichlorofluoromethane	4.97	---	0.174	mg/kg dry	50	1.74	ND	286	62-140%	---	---	Q-54
1,2,3-Trichloropropane	1.69	---	0.0869	mg/kg dry	50	1.74	ND	97	73-125%	---	---	
1,2,4-Trimethylbenzene	1.72	---	0.0869	mg/kg dry	50	1.74	ND	99	75-123%	---	---	
1,3,5-Trimethylbenzene	1.79	---	0.0869	mg/kg dry	50	1.74	ND	103	73-124%	---	---	
Vinyl chloride	2.42	---	0.0435	mg/kg dry	50	1.74	ND	139	56-135%	---	---	Q-54b
m,p-Xylene	3.37	---	0.0869	mg/kg dry	50	3.48	ND	97	77-124%	---	---	
o-Xylene	1.68	---	0.0435	mg/kg dry	50	1.74	ND	96	77-123%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 110 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		92 %		79-120 %		"						

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Philip Nerenberg, Lab Director

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503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0473 - Total Solids (Dry Weight)							Soil					
Duplicate (22D0473-DUP1)			Prepared: 04/13/22 11:43    Analyzed: 04/14/22 09:56									
QC Source Sample: Non-SDG (A2D0012-01)												
% Solids	85.1	---	1.00	%	1	---	84.0	---	---	1	10%	
Duplicate (22D0473-DUP2)			Prepared: 04/13/22 11:43    Analyzed: 04/14/22 09:56									
QC Source Sample: SB-1-4.5'-5.0' (A2D0430-01)												
EPA 8000D												
% Solids	89.8	---	1.00	%	1	---	89.9	---	---	0.09	10%	
Duplicate (22D0473-DUP3)			Prepared: 04/13/22 18:56    Analyzed: 04/14/22 09:56									
QC Source Sample: Non-SDG (A2D0493-01)												
% Solids	90.5	---	1.00	%	1	---	90.3	---	---	0.2	10%	
Duplicate (22D0473-DUP4)			Prepared: 04/13/22 18:56    Analyzed: 04/14/22 09:56									
QC Source Sample: Non-SDG (A2D0501-01)												
% Solids	83.3	---	1.00	%	1	---	84.7	---	---	2	10%	
Duplicate (22D0473-DUP5)			Prepared: 04/13/22 21:11    Analyzed: 04/14/22 09:56									
QC Source Sample: Non-SDG (A2D0502-01)												
% Solids	80.4	---	1.00	%	1	---	80.6	---	---	0.2	10%	
Duplicate (22D0473-DUP6)			Prepared: 04/13/22 21:11    Analyzed: 04/14/22 09:56									
QC Source Sample: Non-SDG (A2D0512-02)												
% Solids	95.8	---	1.00	%	1	---	96.5	---	---	0.7	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2D0430 - 04 29 22 1307****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0819 - Total Solids (Dry Weight)							Soil					
Duplicate (22D0819-DUP1)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-09)</u>												
% Solids	78.9	---	1.00	%	1	---	74.8	---	---	5	10%	
Duplicate (22D0819-DUP2)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-10)</u>												
% Solids	88.6	---	1.00	%	1	---	88.4	---	---	0.2	10%	
Duplicate (22D0819-DUP3)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-11)</u>												
% Solids	90.2	---	1.00	%	1	---	90.8	---	---	0.7	10%	
Duplicate (22D0819-DUP4)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-12)</u>												
% Solids	87.4	---	1.00	%	1	---	87.9	---	---	0.5	10%	
Duplicate (22D0819-DUP5)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-13)</u>												
% Solids	89.5	---	1.00	%	1	---	89.5	---	---	0.01	10%	
Duplicate (22D0819-DUP6)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-14)</u>												
% Solids	89.0	---	1.00	%	1	---	88.8	---	---	0.2	10%	
Duplicate (22D0819-DUP7)			Prepared: 04/21/22 10:08    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0703-15)</u>												
% Solids	81.4	---	1.00	%	1	---	83.9	---	---	3	10%	
Duplicate (22D0819-DUP8)			Prepared: 04/21/22 19:17    Analyzed: 04/22/22 10:16									
<u>QC Source Sample: Non-SDG (A2D0875-01)</u>												
% Solids	92.4	---	1.00	%	1	---	95.1	---	---	3	10%	

Apex Laboratories

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22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0819 - Total Solids (Dry Weight)							Soil					
Duplicate (22D0819-DUP9)			Prepared: 04/21/22 19:17   Analyzed: 04/22/22 10:16									
QC Source Sample: Non-SDG (A2D0884-01)												
% Solids	75.2	---	1.00	%	1	---	75.1	---	---	0.2	10%	
Duplicate (22D0819-DUPA)			Prepared: 04/21/22 19:17   Analyzed: 04/22/22 10:16									
QC Source Sample: Non-SDG (A2D0890-02)												
% Solids	90.1	---	1.00	%	1	---	89.4	---	---	0.7	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## SAMPLE PREPARATION INFORMATION

## Volatile Organic Compounds by EPA 8260D

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22D0439							
A2D0430-01	Soil	5035A/8260D	04/08/22 08:47	04/08/22 08:47	5.65g/5mL	5g/5mL	0.89
A2D0430-03	Soil	5035A/8260D	04/08/22 09:41	04/08/22 09:41	5.81g/5mL	5g/5mL	0.86
A2D0430-05	Soil	5035A/8260D	04/08/22 10:30	04/08/22 10:30	5.28g/5mL	5g/5mL	0.95
A2D0430-07	Soil	5035A/8260D	04/07/22 08:50	04/07/22 08:50	5.76g/5mL	5g/5mL	0.87
A2D0430-10	Soil	5035A/8260D	04/07/22 09:11	04/07/22 09:11	5.69g/5mL	5g/5mL	0.88
A2D0430-11	Soil	5035A/8260D	04/07/22 10:58	04/07/22 10:58	5.05g/5mL	5g/5mL	0.99
A2D0430-13	Soil	5035A/8260D	04/06/22 10:12	04/06/22 10:12	5.7g/5mL	5g/5mL	0.88
A2D0430-15	Soil	5035A/8260D	04/06/22 14:13	04/06/22 14:13	4.97g/5mL	5g/5mL	1.01
Batch: 22D0831							
A2D0430-08	Soil	5035A/8260D	04/07/22 08:55	04/07/22 08:55	5.52g/5mL	5g/5mL	0.91
A2D0430-12	Soil	5035A/8260D	04/07/22 11:04	04/07/22 11:04	5.32g/5mL	5g/5mL	0.94

## Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22D0473							
A2D0430-01	Soil	EPA 8000D	04/08/22 08:47	04/13/22 11:43			NA
A2D0430-03	Soil	EPA 8000D	04/08/22 09:41	04/13/22 11:43			NA
A2D0430-05	Soil	EPA 8000D	04/08/22 10:30	04/13/22 11:43			NA
A2D0430-07	Soil	EPA 8000D	04/07/22 08:50	04/13/22 11:43			NA
A2D0430-10	Soil	EPA 8000D	04/07/22 09:11	04/13/22 11:43			NA
A2D0430-11	Soil	EPA 8000D	04/07/22 10:58	04/13/22 11:43			NA
A2D0430-13	Soil	EPA 8000D	04/06/22 10:12	04/13/22 11:43			NA
A2D0430-15	Soil	EPA 8000D	04/06/22 14:13	04/13/22 11:43			NA
Batch: 22D0819							
A2D0430-08	Soil	EPA 8000D	04/07/22 08:55	04/21/22 19:17			NA
A2D0430-12	Soil	EPA 8000D	04/07/22 11:04	04/21/22 19:17			NA

Apex Laboratories

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A2D0430 - 04 29 22 1307**

## QUALIFIER DEFINITIONS

### **Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

#### **Apex Laboratories**

- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- ICV-02** Estimated Result. Initial Calibration Verification (ICV) failed low.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +119%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +156%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +66%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -15%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -9%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

Apex Laboratories

Philip Nerenberg, Lab Director

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Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Mike Staton**

**Report ID:**

**A2D0430 - 04 29 22 1307**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.  
  
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.  
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.  
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.  
  
" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).  
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.  
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.  
For further details, please request a copy of this document.

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Mike Staton**

**Report ID:**

**A2D0430 - 04 29 22 1307**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A2D0430 - 04 29 22 1307**

### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

**CHAIN OF CUSTODY**

**APEX LABS**  
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

Company: SLR Project Mgr: Mike Staton Project Name: Woodinville West Project #: 101.20841.00001  
Address: 22118 20th Ave SE, Ste G202, Bothell Phone: (425) 402-8800 Email: mstaton@slrconsulting.com PO #  
Sampled by: Steven Losleben  
Site Location: OR AK ID

updated  
Lab # A2D0430 coc 2 of 2

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST				TCLP Metals (8)	TCLP Metals (13)	Priority Metals (8)	AL, Sb, As, Ba, Be, Cd, Cr, Cu, Co, Ni, Pb, Hg, Mn, Mo, Se, V, Zn, TOTAL DISS. TCLP	Hold Sample	Frozen Archive
					8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs						
MW-1 - 13.0' - 13.5'	4/12/22	1058	Soil	3										
MW-1 - 22.5' - 23.0'	4/12/22	1104												
MW-2 - 6.0' - 6.5'	4/12/22	1012												
MW-2 - 22.5' - 23.0'	4/12/22	1018												
MW-3 - 8.5' - 9.0'	4/12/22	1413												
MW-3 - 22.5' - 23.0'	4/12/22	1417												

**SPECIAL INSTRUCTIONS:**  
- Very cloudy by 9260 SIM

**TAT Requested (circle)**  
1 Day 2 Day 3 Day  
5 Day Standard Other:

**SAMPLES ARE HELD FOR 30 DAYS**

RELINQUISHED BY:		RECEIVED BY:	
Signature	Date	Signature	Date
Steve Losleben	4/8/22	Mike Staton	4/12/22
Printed Name: Steven Losleben	Time: 1400	Printed Name: Mike Staton	Time: 1100
Company: SLR		Company: Apex Labs	

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2D0430 - 04 29 22 1307

## APEX LABS COOLER RECEIPT FORM

Client: SLR Element WO#: A2 00430

Project/Project #: Woodinville West #101.20841.00001

## Delivery Info:

Date/time received: 4/9/22 @ 1000 By: AKC

Delivered by: Apex Client ESS FedEx X UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 4/9/22 @ 1000 By: AKC

Chain of Custody included? Yes X No Custody seals? Yes No X

Signed/dated by client? Yes X No

Signed/dated by Apex? Yes X No # 2718 2005 7640

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.2						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition:	Good						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 4/12/22 @ 16:39 By: KAM

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes No X Comments: COC has date as 4/8/22 - 4/7/22  
Containers read 4/8/22 4/7/22

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X

Comments:

## Additional information:

Labeled by: KAM

Witness:

DJS

Cooler Inspected by:

AKC

Apex Laboratories

Philip Nerenberg

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Philip Nerenberg, Lab Director

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## GROUNDWATER SAMPLES



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Friday, April 29, 2022

Greg Lish

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

RE: A2D0557 - Woodinville CD - 101.20841.00001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2D0557, which was received by the laboratory on 4/14/2022 at 9:55:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

---

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1

5.4 degC

---

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

Philip Nerenberg, Lab Director

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-0422	A2D0557-01	Water	04/12/22 15:58	04/14/22 09:55
MW-2-0422	A2D0557-02	Water	04/12/22 17:06	04/14/22 09:55
MW-3-0422	A2D0557-03	Water	04/12/22 16:37	04/14/22 09:55

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0422 (A2D0557-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0580</b>			
Acetone	ND	10.0	20.0	ug/L	1	04/15/22 12:33	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	04/15/22 12:33	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	04/15/22 12:33	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	04/15/22 12:33	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	04/15/22 12:33	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	04/15/22 12:33	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0422 (A2D0557-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0580</b>			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	04/15/22 12:33	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	04/15/22 12:33	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	04/15/22 12:33	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	04/15/22 12:33	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	04/15/22 12:33	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
<b>Vinyl chloride</b>	<b>0.270</b>	0.200	0.400	ug/L	1	04/15/22 12:33	EPA 8260D	<b>J</b>
m,p-Xylene	ND	0.500	1.00	ug/L	1	04/15/22 12:33	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	04/15/22 12:33	EPA 8260D	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0422 (A2D0557-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0580</b>			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 105 %	Limits: 80-120 %	1	04/15/22 12:33	EPA 8260D		
Toluene-d8 (Surr)		98 %	80-120 %	1	04/15/22 12:33	EPA 8260D		
4-Bromofluorobenzene (Surr)		97 %	80-120 %	1	04/15/22 12:33	EPA 8260D		
<b>MW-2-0422 (A2D0557-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0648</b>			
Acetone	ND	10.0	20.0	ug/L	1	04/18/22 15:10	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	04/18/22 15:10	EPA 8260D	
<b>Benzene</b>	<b>0.440</b>	0.100	0.200	ug/L	1	04/18/22 15:10	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	04/18/22 15:10	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	04/18/22 15:10	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	04/18/22 15:10	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	04/18/22 15:10	EPA 8260D	
<b>2-Chlorotoluene</b>	<b>4.04</b>	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2-0422 (A2D0557-02RE1)		Matrix: Water			Batch: 22D0648			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
cis-1,2-Dichloroethene	0.650	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Ethylbenzene	0.740	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	04/18/22 15:10	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	04/18/22 15:10	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	04/18/22 15:10	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	04/18/22 15:10	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/18/22 15:10	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	04/18/22 15:10	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0422 (A2D0557-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0648</b>			
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
<b>m,p-Xylene</b>	<b>1.46</b>	0.500	1.00	ug/L	1	04/18/22 15:10	EPA 8260D	
<b>o-Xylene</b>	<b>1.41</b>	0.250	0.500	ug/L	1	04/18/22 15:10	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/18/22 15:10</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/18/22 15:10</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/18/22 15:10</i>	<i>EPA 8260D</i>	
<b>MW-3-0422 (A2D0557-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0580</b>			
Acetone	ND	10.0	20.0	ug/L	1	04/15/22 13:18	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	04/15/22 13:18	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	04/15/22 13:18	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	04/15/22 13:18	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	04/15/22 13:18	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	04/15/22 13:18	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-0422 (A2D0557-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0580</b>			
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	04/15/22 13:18	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	04/15/22 13:18	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	04/15/22 13:18	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	04/15/22 13:18	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	04/15/22 13:18	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	04/15/22 13:18	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-0422 (A2D0557-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0580</b>			
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	04/15/22 13:18	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	04/15/22 13:18	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	106 %	<i>Limits:</i>	80-120 %	1	04/15/22 13:18	EPA 8260D
<i>Toluene-d8 (Surr)</i>			97 %		80-120 %	1	04/15/22 13:18	EPA 8260D
<i>4-Bromofluorobenzene (Surr)</i>			97 %		80-120 %	1	04/15/22 13:18	EPA 8260D

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001  
Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## ANALYTICAL SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0422 (A2D0557-02RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0939</b>			
Vinyl chloride	0.0846	0.0100	0.0200	ug/L	1	04/26/22 12:39	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	97 %	Limits:	80-120 %	1	04/26/22 12:39	EPA 8260D SIM
Toluene-d8 (Surr)			99 %		80-120 %	1	04/26/22 12:39	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	04/26/22 12:39	EPA 8260D SIM
<b>MW-3-0422 (A2D0557-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22D0769</b>			
Vinyl chloride	ND	0.0200	0.0200	ug/L	1	04/21/22 03:20	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	105 %	Limits:	80-120 %	1	04/21/22 03:20	EPA 8260D SIM
Toluene-d8 (Surr)			104 %		80-120 %	1	04/21/22 03:20	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			96 %		80-120 %	1	04/21/22 03:20	EPA 8260D SIM

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Blank (22D0580-BLK1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 11:27							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Page 11 of 39



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**  
Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Blank (22D0580-BLK1)						Prepared: 04/15/22 10:03 Analyzed: 04/15/22 11:27						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Blank (22D0580-BLK1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 11:27							
Surr: Toluene-d8 (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
LCS (22D0580-BS1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 10:28							
EPA 8260D												
Acetone	34.9	10.0	20.0	ug/L	1	40.0	---	87	80-120%	---	---	
Acrylonitrile	17.5	1.00	2.00	ug/L	1	20.0	---	88	80-120%	---	---	
Benzene	18.9	0.100	0.200	ug/L	1	20.0	---	94	80-120%	---	---	
Bromobenzene	16.8	0.250	0.500	ug/L	1	20.0	---	84	80-120%	---	---	
Bromochloromethane	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Bromodichloromethane	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Bromoform	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Bromomethane	20.4	5.00	5.00	ug/L	1	20.0	---	102	80-120%	---	---	
2-Butanone (MEK)	34.1	5.00	10.0	ug/L	1	40.0	---	85	80-120%	---	---	
n-Butylbenzene	18.2	0.500	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
sec-Butylbenzene	19.5	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
tert-Butylbenzene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Carbon disulfide	19.4	5.00	10.0	ug/L	1	20.0	---	97	80-120%	---	---	
Carbon tetrachloride	19.9	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
Chlorobenzene	17.7	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
Chloroethane	18.6	5.00	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
Chloroform	18.9	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Chloromethane	18.8	2.50	5.00	ug/L	1	20.0	---	94	80-120%	---	---	
2-Chlorotoluene	17.7	0.500	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
4-Chlorotoluene	17.6	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
Dibromochloromethane	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2-Dibromo-3-chloropropane	17.3	2.50	5.00	ug/L	1	20.0	---	86	80-120%	---	---	
1,2-Dibromoethane (EDB)	18.7	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Dibromomethane	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dichlorobenzene	17.2	0.250	0.500	ug/L	1	20.0	---	86	80-120%	---	---	
1,3-Dichlorobenzene	17.6	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
1,4-Dichlorobenzene	17.1	0.250	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
Dichlorodifluoromethane	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1-Dichloroethane	18.9	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
LCS (22D0580-BS1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 10:28							
1,2-Dichloroethane (EDC)	18.3	0.200	0.400	ug/L	1	20.0	---	91	80-120%	---	---	
1,1-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
cis-1,2-Dichloroethene	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
trans-1,2-Dichloroethene	18.7	0.200	0.400	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dichloropropane	18.2	0.250	0.500	ug/L	1	20.0	---	91	80-120%	---	---	
1,3-Dichloropropane	17.5	0.500	1.00	ug/L	1	20.0	---	87	80-120%	---	---	
2,2-Dichloropropane	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,1-Dichloropropene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
cis-1,3-Dichloropropene	18.8	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
trans-1,3-Dichloropropene	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Ethylbenzene	18.3	0.250	0.500	ug/L	1	20.0	---	91	80-120%	---	---	
Hexachlorobutadiene	17.3	2.50	5.00	ug/L	1	20.0	---	86	80-120%	---	---	
2-Hexanone	27.6	10.0	10.0	ug/L	1	40.0	---	69	80-120%	---	---	Q-55
Isopropylbenzene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Isopropyltoluene	18.9	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Methylene chloride	18.4	5.00	10.0	ug/L	1	20.0	---	92	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	33.1	5.00	10.0	ug/L	1	40.0	---	83	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Naphthalene	14.7	2.00	2.00	ug/L	1	20.0	---	74	80-120%	---	---	Q-55
n-Propylbenzene	18.2	0.250	0.500	ug/L	1	20.0	---	91	80-120%	---	---	
Styrene	16.8	0.500	1.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,1,1,2-Tetrachloroethane	17.6	0.200	0.400	ug/L	1	20.0	---	88	80-120%	---	---	
1,1,2,2-Tetrachloroethane	16.9	0.250	0.500	ug/L	1	20.0	---	84	80-120%	---	---	
Tetrachloroethene (PCE)	19.0	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Toluene	17.6	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,2,3-Trichlorobenzene	17.2	1.00	2.00	ug/L	1	20.0	---	86	80-120%	---	---	
1,2,4-Trichlorobenzene	17.5	1.00	2.00	ug/L	1	20.0	---	87	80-120%	---	---	
1,1,1-Trichloroethane	19.7	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,2-Trichloroethane	18.1	0.250	0.500	ug/L	1	20.0	---	90	80-120%	---	---	
Trichloroethene (TCE)	18.5	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
Trichlorofluoromethane	20.3	1.00	2.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,3-Trichloropropane	16.4	0.500	1.00	ug/L	1	20.0	---	82	80-120%	---	---	
1,2,4-Trimethylbenzene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,3,5-Trimethylbenzene	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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503-718-2323

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
LCS (22D0580-BS1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 10:28							
Vinyl chloride	18.9	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
m,p-Xylene	38.9	0.500	1.00	ug/L	1	40.0	---	97	80-120%	---	---	
o-Xylene	18.7	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

**Duplicate (22D0580-DUP1)**

Prepared: 04/15/22 10:03 Analyzed: 04/15/22 12:56

**QC Source Sample: MW-1-0422 (A2D0557-01)****EPA 8260D**

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Duplicate (22D0580-DUP1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 12:56							
QC Source Sample: MW-1-0422 (A2D0557-01)												
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Duplicate (22D0580-DUP1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 12:56							
QC Source Sample: MW-1-0422 (A2D0557-01)												
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	0.270	---	---	***	30%	Q-05
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
Duplicate (22D0580-DUP2)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 18:31							
QC Source Sample: Non-SDG (A2D0579-03)												
Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	17.1	0.100	0.200	ug/L	1	---	14.6	---	---	16	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Duplicate (22D0580-DUP2)			Prepared: 04/15/22 10:03    Analyzed: 04/15/22 18:31									
QC Source Sample: Non-SDG (A2D0579-03)												
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	38.4	0.250	0.500	ug/L	1	---	42.1	---	---	9	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	10.0	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	2.49	0.500	1.00	ug/L	1	---	2.54	---	---	2	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	3.06	2.00	2.00	ug/L	1	---	2.90	---	---	5	30%	
n-Propylbenzene	4.91	0.250	0.500	ug/L	1	---	5.18	---	---	5	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Duplicate (22D0580-DUP2)			Prepared: 04/15/22 10:03    Analyzed: 04/15/22 18:31									
QC Source Sample: Non-SDG (A2D0579-03)												
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	1.86	0.500	1.00	ug/L	1	---	1.77	---	---	5	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	1.75	0.500	1.00	ug/L	1	---	1.67	---	---	5	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

## Matrix Spike (22D0580-MS1)

Prepared: 04/15/22 10:03 Analyzed: 04/15/22 14:03

**QC Source Sample: Non-SDG (A2D0514-02)****EPA 8260D**

Acetone	30.1	10.0	20.0	ug/L	1	40.0	ND	75	39-160%	---	---
Acrylonitrile	18.5	1.00	2.00	ug/L	1	20.0	ND	93	63-135%	---	---
Benzene	20.9	0.100	0.200	ug/L	1	20.0	ND	105	79-120%	---	---
Bromobenzene	17.1	0.250	0.500	ug/L	1	20.0	ND	86	80-120%	---	---
Bromochloromethane	21.3	0.500	1.00	ug/L	1	20.0	ND	107	78-123%	---	---
Bromodichloromethane	20.9	0.500	1.00	ug/L	1	20.0	ND	104	79-125%	---	---
Bromoform	22.0	0.500	1.00	ug/L	1	20.0	ND	110	66-130%	---	---
Bromomethane	22.5	5.00	5.00	ug/L	1	20.0	ND	112	53-141%	---	---
2-Butanone (MEK)	28.9	5.00	10.0	ug/L	1	40.0	ND	72	56-143%	---	---
n-Butylbenzene	19.2	0.500	1.00	ug/L	1	20.0	ND	96	75-128%	---	---
sec-Butylbenzene	20.6	0.500	1.00	ug/L	1	20.0	ND	103	77-126%	---	---

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0580 - EPA 5030B						Water						
Matrix Spike (22D0580-MS1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 14:03							
QC Source Sample: Non-SDG (A2D0514-02)												
tert-Butylbenzene	19.5	0.500	1.00	ug/L	1	20.0	ND	98	78-124%	---	---	
Carbon disulfide	21.8	5.00	10.0	ug/L	1	20.0	ND	109	64-133%	---	---	
Carbon tetrachloride	22.4	0.500	1.00	ug/L	1	20.0	ND	112	72-136%	---	---	
Chlorobenzene	18.9	0.250	0.500	ug/L	1	20.0	ND	94	80-120%	---	---	
Chloroethane	21.3	5.00	5.00	ug/L	1	20.0	ND	107	60-138%	---	---	
Chloroform	20.7	0.500	1.00	ug/L	1	20.0	ND	104	79-124%	---	---	
Chloromethane	21.4	2.50	5.00	ug/L	1	20.0	ND	107	50-139%	---	---	
2-Chlorotoluene	18.4	0.500	1.00	ug/L	1	20.0	ND	92	79-122%	---	---	
4-Chlorotoluene	18.4	0.500	1.00	ug/L	1	20.0	ND	92	78-122%	---	---	
Dibromochloromethane	19.8	0.500	1.00	ug/L	1	20.0	ND	99	74-126%	---	---	
1,2-Dibromo-3-chloropropane	17.9	2.50	5.00	ug/L	1	20.0	ND	90	62-128%	---	---	
1,2-Dibromoethane (EDB)	19.7	0.250	0.500	ug/L	1	20.0	ND	98	77-121%	---	---	
Dibromomethane	20.5	0.500	1.00	ug/L	1	20.0	ND	103	79-123%	---	---	
1,2-Dichlorobenzene	17.7	0.250	0.500	ug/L	1	20.0	ND	88	80-120%	---	---	
1,3-Dichlorobenzene	18.3	0.250	0.500	ug/L	1	20.0	ND	92	80-120%	---	---	
1,4-Dichlorobenzene	17.5	0.250	0.500	ug/L	1	20.0	ND	88	79-120%	---	---	
Dichlorodifluoromethane	21.4	0.500	1.00	ug/L	1	20.0	ND	107	32-152%	---	---	
1,1-Dichloroethane	20.9	0.200	0.400	ug/L	1	20.0	ND	104	77-125%	---	---	
1,2-Dichloroethane (EDC)	19.5	0.200	0.400	ug/L	1	20.0	ND	98	73-128%	---	---	
1,1-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	ND	112	71-131%	---	---	
cis-1,2-Dichloroethene	20.7	0.200	0.400	ug/L	1	20.0	ND	104	78-123%	---	---	
trans-1,2-Dichloroethene	21.2	0.200	0.400	ug/L	1	20.0	ND	106	75-124%	---	---	
1,2-Dichloropropane	19.8	0.250	0.500	ug/L	1	20.0	ND	99	78-122%	---	---	
1,3-Dichloropropane	18.7	0.500	1.00	ug/L	1	20.0	ND	94	80-120%	---	---	
2,2-Dichloropropane	20.2	0.500	1.00	ug/L	1	20.0	ND	101	60-139%	---	---	
1,1-Dichloropropene	21.9	0.500	1.00	ug/L	1	20.0	ND	110	79-125%	---	---	
cis-1,3-Dichloropropene	18.2	0.500	1.00	ug/L	1	20.0	ND	91	75-124%	---	---	
trans-1,3-Dichloropropene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	73-127%	---	---	
Ethylbenzene	19.8	0.250	0.500	ug/L	1	20.0	ND	99	79-121%	---	---	
Hexachlorobutadiene	18.4	2.50	5.00	ug/L	1	20.0	ND	92	66-134%	---	---	
2-Hexanone	26.0	10.0	10.0	ug/L	1	40.0	ND	65	57-139%	---	---	Q-54f
Isopropylbenzene	21.9	0.500	1.00	ug/L	1	20.0	ND	110	72-131%	---	---	
4-Isopropyltoluene	20.0	0.500	1.00	ug/L	1	20.0	ND	100	77-127%	---	---	

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Philip Nerenberg, Lab Director

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503-718-2323

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22D0580 - EPA 5030B						Water							
Matrix Spike (22D0580-MS1)			Prepared: 04/15/22 10:03		Analyzed: 04/15/22 14:03								
QC Source Sample: Non-SDG (A2D0514-02)													
Methylene chloride	20.0	5.00	10.0	ug/L	1	20.0	ND	100	74-124%	---	---	Q-54g	
4-Methyl-2-pentanone (MiBK)	35.3	5.00	10.0	ug/L	1	40.0	ND	88	67-130%	---	---		
Methyl tert-butyl ether (MTBE)	20.8	0.500	1.00	ug/L	1	20.0	ND	104	71-124%	---	---		
Naphthalene	15.2	2.00	2.00	ug/L	1	20.0	ND	76	61-128%	---	---		
n-Propylbenzene	18.9	0.250	0.500	ug/L	1	20.0	ND	95	76-126%	---	---		
Styrene	17.9	0.500	1.00	ug/L	1	20.0	ND	90	78-123%	---	---		
1,1,1,2-Tetrachloroethane	18.5	0.200	0.400	ug/L	1	20.0	ND	93	78-124%	---	---		
1,1,2,2-Tetrachloroethane	17.4	0.250	0.500	ug/L	1	20.0	ND	87	71-121%	---	---		
Tetrachloroethene (PCE)	20.9	0.200	0.400	ug/L	1	20.0	ND	104	74-129%	---	---		
Toluene	18.9	0.500	1.00	ug/L	1	20.0	ND	95	80-121%	---	---		
1,2,3-Trichlorobenzene	17.9	1.00	2.00	ug/L	1	20.0	ND	89	69-129%	---	---		
1,2,4-Trichlorobenzene	17.7	1.00	2.00	ug/L	1	20.0	ND	89	69-130%	---	---		
1,1,1-Trichloroethane	22.1	0.200	0.400	ug/L	1	20.0	ND	110	74-131%	---	---		
1,1,2-Trichloroethane	19.0	0.250	0.500	ug/L	1	20.0	ND	95	80-120%	---	---		
Trichloroethene (TCE)	20.7	0.200	0.400	ug/L	1	20.0	0.320	102	79-123%	---	---		
Trichlorofluoromethane	23.0	1.00	2.00	ug/L	1	20.0	ND	115	65-141%	---	---		
1,2,3-Trichloropropane	16.9	0.500	1.00	ug/L	1	20.0	ND	84	73-122%	---	---		
1,2,4-Trimethylbenzene	19.9	0.500	1.00	ug/L	1	20.0	ND	100	76-124%	---	---		
1,3,5-Trimethylbenzene	19.8	0.500	1.00	ug/L	1	20.0	ND	99	75-124%	---	---		
Vinyl chloride	21.6	0.200	0.400	ug/L	1	20.0	ND	108	58-137%	---	---		
m,p-Xylene	42.2	0.500	1.00	ug/L	1	40.0	ND	106	80-121%	---	---		
o-Xylene	20.2	0.250	0.500	ug/L	1	20.0	ND	101	78-122%	---	---		
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x							
Toluene-d8 (Surr)		94 %		80-120 %		"							
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"							

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Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Blank (22D0648-BLK1)			Prepared: 04/18/22 10:12		Analyzed: 04/18/22 14:06							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Blank (22D0648-BLK1)						Prepared: 04/18/22 10:12 Analyzed: 04/18/22 14:06						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 107 % Limits: 80-120 % Dilution: 1x												

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Blank (22D0648-BLK1)			Prepared: 04/18/22 10:12		Analyzed: 04/18/22 14:06							
Surr: Toluene-d8 (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (22D0648-BS1)			Prepared: 04/18/22 10:12		Analyzed: 04/18/22 13:10							
EPA 8260D												
Acetone	47.2	10.0	20.0	ug/L	1	40.0	---	118	80-120%	---	---	
Acrylonitrile	21.4	1.00	2.00	ug/L	1	20.0	---	107	80-120%	---	---	
Benzene	23.5	0.100	0.200	ug/L	1	20.0	---	117	80-120%	---	---	
Bromobenzene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Bromochloromethane	22.4	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
Bromodichloromethane	23.6	0.500	1.00	ug/L	1	20.0	---	118	80-120%	---	---	
Bromoform	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Bromomethane	21.4	5.00	5.00	ug/L	1	20.0	---	107	80-120%	---	---	
2-Butanone (MEK)	48.8	5.00	10.0	ug/L	1	40.0	---	122	80-120%	---	---	Q-56
n-Butylbenzene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
sec-Butylbenzene	18.7	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
tert-Butylbenzene	18.3	0.500	1.00	ug/L	1	20.0	---	91	80-120%	---	---	
Carbon disulfide	23.4	5.00	10.0	ug/L	1	20.0	---	117	80-120%	---	---	
Carbon tetrachloride	27.3	0.500	1.00	ug/L	1	20.0	---	137	80-120%	---	---	Q-56
Chlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Chloroethane	20.6	5.00	5.00	ug/L	1	20.0	---	103	80-120%	---	---	
Chloroform	23.4	0.500	1.00	ug/L	1	20.0	---	117	80-120%	---	---	
Chloromethane	20.6	2.50	5.00	ug/L	1	20.0	---	103	80-120%	---	---	
2-Chlorotoluene	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
4-Chlorotoluene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Dibromochloromethane	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,2-Dibromo-3-chloropropane	19.0	2.50	5.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2-Dibromoethane (EDB)	21.3	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Dibromomethane	23.3	0.500	1.00	ug/L	1	20.0	---	116	80-120%	---	---	
1,2-Dichlorobenzene	19.3	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
1,3-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,4-Dichlorobenzene	18.7	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Dichlorodifluoromethane	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,1-Dichloroethane	22.4	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
LCS (22D0648-BS1)						Prepared: 04/18/22 10:12 Analyzed: 04/18/22 13:10						
1,2-Dichloroethane (EDC)	22.5	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
1,1-Dichloroethene	23.6	0.200	0.400	ug/L	1	20.0	---	118	80-120%	---	---	
cis-1,2-Dichloroethene	22.5	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
trans-1,2-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
1,2-Dichloropropane	22.2	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
1,3-Dichloropropane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
2,2-Dichloropropane	25.8	0.500	1.00	ug/L	1	20.0	---	129	80-120%	---	---	Q-56
1,1-Dichloropropene	24.8	0.500	1.00	ug/L	1	20.0	---	124	80-120%	---	---	Q-56
cis-1,3-Dichloropropene	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
trans-1,3-Dichloropropene	22.9	0.500	1.00	ug/L	1	20.0	---	114	80-120%	---	---	
Ethylbenzene	21.2	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Hexachlorobutadiene	19.1	2.50	5.00	ug/L	1	20.0	---	96	80-120%	---	---	
2-Hexanone	36.9	5.00	10.0	ug/L	1	40.0	---	92	80-120%	---	---	
Isopropylbenzene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
4-Isopropyltoluene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
Methylene chloride	21.7	5.00	10.0	ug/L	1	20.0	---	109	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	38.9	5.00	10.0	ug/L	1	40.0	---	97	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	24.2	0.500	1.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
Naphthalene	17.1	1.00	2.00	ug/L	1	20.0	---	86	80-120%	---	---	
n-Propylbenzene	21.1	0.250	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Styrene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,1,1,2-Tetrachloroethane	22.5	0.200	0.400	ug/L	1	20.0	---	113	80-120%	---	---	
1,1,2,2-Tetrachloroethane	18.9	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Tetrachloroethene (PCE)	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
Toluene	19.9	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2,3-Trichlorobenzene	19.8	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,2,4-Trichlorobenzene	19.8	1.00	2.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,1-Trichloroethane	24.3	0.200	0.400	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
1,1,2-Trichloroethane	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Trichloroethene (TCE)	22.1	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
Trichlorofluoromethane	24.3	1.00	2.00	ug/L	1	20.0	---	122	80-120%	---	---	Q-56
1,2,3-Trichloropropane	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,3,5-Trimethylbenzene	18.7	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	

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Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
LCS (22D0648-BS1)			Prepared: 04/18/22 10:12		Analyzed: 04/18/22 13:10							
Vinyl chloride	21.7	0.200	0.400	ug/L	1	20.0	---	109	80-120%	---	---	
m,p-Xylene	38.4	0.500	1.00	ug/L	1	40.0	---	96	80-120%	---	---	
o-Xylene	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		93 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

**Duplicate (22D0648-DUP1)**

Prepared: 04/18/22 10:12 Analyzed: 04/18/22 17:18

**QC Source Sample: Non-SDG (A2D0555-02)**

Acetone	ND	100	200	ug/L	10	---	ND	---	---	---	30%
Acrylonitrile	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%
Benzene	ND	1.00	2.00	ug/L	10	---	ND	---	---	---	30%
Bromobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%
Bromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Bromodichloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Bromoform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Bromomethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%
n-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
sec-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
tert-Butylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Carbon disulfide	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%
Carbon tetrachloride	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Chlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%
Chloroethane	ND	50.0	50.0	ug/L	10	---	ND	---	---	---	30%
Chloroform	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Chloromethane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%
2-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
4-Chlorotoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
Dibromochloromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%
Dibromomethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



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A2D0557 - 04 29 22 1635

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Duplicate (22D0648-DUP1)			Prepared: 04/18/22 10:12   Analyzed: 04/18/22 17:18									
QC Source Sample: Non-SDG (A2D0555-02)												
1,3-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	25.0	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	50.0	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Styrene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	8.20	2.00	4.00	ug/L	10	---	8.50	---	---	4	30%	
Toluene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	

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Page 27 of 39



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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Duplicate (22D0648-DUP1)			Prepared: 04/18/22 10:12   Analyzed: 04/18/22 17:18									
QC Source Sample: Non-SDG (A2D0555-02)												
Trichloroethene (TCE)	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	10.0	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
Vinyl chloride	ND	2.00	4.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	ND	5.00	10.0	ug/L	10	---	ND	---	---	---	30%	
o-Xylene	ND	2.50	5.00	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 109 %		Limits: 80-120 %		Dilution: 10x						
Toluene-d8 (Surr)		93 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

**Matrix Spike (22D0648-MS1)**

Prepared: 04/18/22 10:12 Analyzed: 04/18/22 18:01

QC Source Sample: Non-SDG (A2D0555-03)EPA 8260D

Acetone	396	100	200	ug/L	10	400	ND	99	39-160%	---	---	
Acrylonitrile	219	10.0	20.0	ug/L	10	200	ND	109	63-135%	---	---	
Benzene	256	1.00	2.00	ug/L	10	200	ND	<b>128</b>	<b>79-120%</b>	---	---	Q-01
Bromobenzene	192	2.50	5.00	ug/L	10	200	ND	96	80-120%	---	---	
Bromochloromethane	240	5.00	10.0	ug/L	10	200	ND	120	78-123%	---	---	
Bromodichloromethane	248	5.00	10.0	ug/L	10	200	ND	124	79-125%	---	---	
Bromoform	216	5.00	10.0	ug/L	10	200	ND	108	66-130%	---	---	
Bromomethane	250	50.0	50.0	ug/L	10	200	ND	125	53-141%	---	---	
2-Butanone (MEK)	436	50.0	100	ug/L	10	400	ND	109	56-143%	---	---	Q-54b
n-Butylbenzene	199	5.00	10.0	ug/L	10	200	ND	100	75-128%	---	---	
sec-Butylbenzene	205	5.00	10.0	ug/L	10	200	ND	102	77-126%	---	---	
tert-Butylbenzene	200	5.00	10.0	ug/L	10	200	ND	100	78-124%	---	---	
Carbon disulfide	262	50.0	100	ug/L	10	200	ND	131	64-133%	---	---	
Carbon tetrachloride	296	5.00	10.0	ug/L	10	200	ND	<b>148</b>	<b>72-136%</b>	---	---	Q-54a
Chlorobenzene	210	2.50	5.00	ug/L	10	200	ND	105	80-120%	---	---	
Chloroethane	237	50.0	50.0	ug/L	10	200	ND	118	60-138%	---	---	
Chloroform	251	5.00	10.0	ug/L	10	200	ND	<b>125</b>	<b>79-124%</b>	---	---	Q-01
Chloromethane	226	25.0	50.0	ug/L	10	200	ND	113	50-139%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Matrix Spike (22D0648-MS1)			Prepared: 04/18/22 10:12			Analyzed: 04/18/22 18:01						
QC Source Sample: Non-SDG (A2D0555-03)												
2-Chlorotoluene	214	5.00	10.0	ug/L	10	200	ND	107	79-122%	---	---	
4-Chlorotoluene	221	5.00	10.0	ug/L	10	200	ND	111	78-122%	---	---	
Dibromochloromethane	227	5.00	10.0	ug/L	10	200	ND	113	74-126%	---	---	
1,2-Dibromo-3-chloropropane	187	25.0	50.0	ug/L	10	200	ND	94	62-128%	---	---	
1,2-Dibromoethane (EDB)	214	2.50	5.00	ug/L	10	200	ND	107	77-121%	---	---	
Dibromomethane	245	5.00	10.0	ug/L	10	200	ND	122	79-123%	---	---	
1,2-Dichlorobenzene	198	2.50	5.00	ug/L	10	200	ND	99	80-120%	---	---	
1,3-Dichlorobenzene	206	2.50	5.00	ug/L	10	200	ND	103	80-120%	---	---	
1,4-Dichlorobenzene	194	2.50	5.00	ug/L	10	200	ND	97	79-120%	---	---	
Dichlorodifluoromethane	240	5.00	10.0	ug/L	10	200	ND	120	32-152%	---	---	
1,1-Dichloroethane	251	2.00	4.00	ug/L	10	200	ND	125	77-125%	---	---	
1,2-Dichloroethane (EDC)	236	2.00	4.00	ug/L	10	200	ND	118	73-128%	---	---	
1,1-Dichloroethene	263	2.00	4.00	ug/L	10	200	ND	132	71-131%	---	---	Q-01
cis-1,2-Dichloroethene	248	2.00	4.00	ug/L	10	200	ND	124	78-123%	---	---	Q-01
trans-1,2-Dichloroethene	245	2.00	4.00	ug/L	10	200	ND	122	75-124%	---	---	
1,2-Dichloropropane	243	2.50	5.00	ug/L	10	200	ND	121	78-122%	---	---	
1,3-Dichloropropane	210	5.00	10.0	ug/L	10	200	ND	105	80-120%	---	---	
2,2-Dichloropropane	264	5.00	10.0	ug/L	10	200	ND	132	60-139%	---	---	Q-54e
1,1-Dichloropropene	271	5.00	10.0	ug/L	10	200	ND	136	79-125%	---	---	Q-54c
cis-1,3-Dichloropropene	179	5.00	10.0	ug/L	10	200	ND	90	75-124%	---	---	
trans-1,3-Dichloropropene	231	5.00	10.0	ug/L	10	200	ND	116	73-127%	---	---	
Ethylbenzene	228	2.50	5.00	ug/L	10	200	ND	114	79-121%	---	---	
Hexachlorobutadiene	202	25.0	50.0	ug/L	10	200	ND	101	66-134%	---	---	
2-Hexanone	363	50.0	100	ug/L	10	400	ND	91	57-139%	---	---	
Isopropylbenzene	202	5.00	10.0	ug/L	10	200	ND	101	72-131%	---	---	
4-Isopropyltoluene	198	5.00	10.0	ug/L	10	200	ND	99	77-127%	---	---	
Methylene chloride	229	50.0	100	ug/L	10	200	ND	114	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	408	50.0	100	ug/L	10	400	ND	102	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	249	5.00	10.0	ug/L	10	200	ND	125	71-124%	---	---	Q-54
Naphthalene	174	10.0	20.0	ug/L	10	200	ND	87	61-128%	---	---	
n-Propylbenzene	227	2.50	5.00	ug/L	10	200	ND	114	76-126%	---	---	
Styrene	197	5.00	10.0	ug/L	10	200	ND	98	78-123%	---	---	
1,1,1,2-Tetrachloroethane	234	2.00	4.00	ug/L	10	200	ND	117	78-124%	---	---	

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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0648 - EPA 5030B						Water						
Matrix Spike (22D0648-MS1)			Prepared: 04/18/22 10:12    Analyzed: 04/18/22 18:01									
QC Source Sample: Non-SDG (A2D0555-03)												
1,1,2,2-Tetrachloroethane	193	2.50	5.00	ug/L	10	200	ND	97	71-121%	---	---	Q-54b
Tetrachloroethene (PCE)	228	2.00	4.00	ug/L	10	200	8.80	110	74-129%	---	---	
Toluene	212	5.00	10.0	ug/L	10	200	ND	106	80-121%	---	---	
1,2,3-Trichlorobenzene	201	10.0	20.0	ug/L	10	200	ND	100	69-129%	---	---	
1,2,4-Trichlorobenzene	203	10.0	20.0	ug/L	10	200	ND	101	69-130%	---	---	
1,1,1-Trichloroethane	268	2.00	4.00	ug/L	10	200	ND	134	74-131%	---	---	Q-54b
1,1,2-Trichloroethane	206	2.50	5.00	ug/L	10	200	ND	103	80-120%	---	---	
Trichloroethene (TCE)	245	2.00	4.00	ug/L	10	200	ND	122	79-123%	---	---	
Trichlorofluoromethane	278	10.0	20.0	ug/L	10	200	ND	139	65-141%	---	---	
1,2,3-Trichloropropane	196	5.00	10.0	ug/L	10	200	ND	98	73-122%	---	---	
1,2,4-Trimethylbenzene	197	5.00	10.0	ug/L	10	200	ND	98	76-124%	---	---	
1,3,5-Trimethylbenzene	200	5.00	10.0	ug/L	10	200	ND	100	75-124%	---	---	
Vinyl chloride	257	2.00	4.00	ug/L	10	200	ND	129	58-137%	---	---	
m,p-Xylene	414	5.00	10.0	ug/L	10	400	ND	104	80-121%	---	---	
o-Xylene	194	2.50	5.00	ug/L	10	200	ND	97	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 10x						
Toluene-d8 (Surr)		92 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**  
Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0769 - EPA 5030B						Water						
Blank (22D0769-BLK1)			Prepared: 04/20/22 10:03		Analyzed: 04/20/22 18:49							
EPA 8260D SIM												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		105 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						
LCS (22D0769-BS1)			Prepared: 04/20/22 10:03		Analyzed: 04/20/22 17:39							
EPA 8260D SIM												
Vinyl chloride	0.255	0.0100	0.0200	ug/L	1	0.200	---	127	80-120%	---	---	Q-56
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		103 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						
Duplicate (22D0769-DUP1)			Prepared: 04/20/22 10:03		Analyzed: 04/20/22 21:31							
QC Source Sample: Non-SDG (A2D0461-03)												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 103 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		105 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						
Matrix Spike (22D0769-MS1)			Prepared: 04/20/22 10:03		Analyzed: 04/21/22 03:47							
QC Source Sample: MW-3-0422 (A2D0557-03)												
EPA 8260D SIM												
Vinyl chloride	0.294	0.0100	0.0200	ug/L	1	0.200	ND	139	58-137%	---	---	Q-54d
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		104 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville CD**Project Number: **101.20841.00001**  
Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22D0939 - EPA 5030B						Water						
Blank (22D0939-BLK1)			Prepared: 04/26/22 09:47   Analyzed: 04/26/22 12:12									
EPA 8260D SIM												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
LCS (22D0939-BS1)			Prepared: 04/26/22 09:47   Analyzed: 04/26/22 11:18									
EPA 8260D SIM												
Vinyl chloride	0.206	0.0100	0.0200	ug/L	1	0.200	---	103	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Duplicate (22D0939-DUP1)			Prepared: 04/26/22 09:47   Analyzed: 04/26/22 16:14									
QC Source Sample: Non-SDG (A2D0905-03)												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		102 %		80-120 %		"						
Matrix Spike (22D0939-MS1)			Prepared: 04/26/22 09:47   Analyzed: 04/26/22 17:34									
QC Source Sample: Non-SDG (A2D0905-05)												
EPA 8260D SIM												
Vinyl chloride	0.230	0.0100	0.0200	ug/L	1	0.200	ND	115	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville CD**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2D0557 - 04 29 22 1635****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 8260D****Prep: EPA 5030B**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 22D0580</b>							
A2D0557-01	Water	EPA 8260D	04/12/22 15:58	04/15/22 10:03	5mL/5mL	5mL/5mL	1.00
A2D0557-03	Water	EPA 8260D	04/12/22 16:37	04/15/22 10:03	5mL/5mL	5mL/5mL	1.00
<b>Batch: 22D0648</b>							
A2D0557-02RE1	Water	EPA 8260D	04/12/22 17:06	04/18/22 10:12	5mL/5mL	5mL/5mL	1.00

**Vinyl Chloride by EPA 8260D SIM****Prep: EPA 5030B**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 22D0769</b>							
A2D0557-03	Water	EPA 8260D SIM	04/12/22 16:37	04/20/22 10:03	5mL/5mL	5mL/5mL	1.00
<b>Batch: 22D0939</b>							
A2D0557-02RE1	Water	EPA 8260D SIM	04/12/22 17:06	04/26/22 09:47	5mL/5mL	5mL/5mL	1.00

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Project: **Woodinville CD**

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Project Manager: **Greg Lish**

**Report ID:**

**A2D0557 - 04 29 22 1635**

## QUALIFIER DEFINITIONS

### **Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

#### **Apex Laboratories**

- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +17%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -11%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

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Project Number: **101.20841.00001**

Project Manager: **Greg Lish**

**Report ID:**

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### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.  
  
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.  
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.  
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.  
  
" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).  
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.  
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.  
For further details, please request a copy of this document.

Apex Laboratories

Philip Nerenberg, Lab Director

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville CD**

Project Number: **101.20841.00001**  
Project Manager: **Greg Lish**

**Report ID:**

**A2D0557 - 04 29 22 1635**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville CD**

Project Number: **101.20841.00001**

Project Manager: **Greg Lish**

**Report ID:**

**A2D0557 - 04 29 22 1635**

### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

APEX LABS																						
CHAIN OF CUSTODY																						
Lab # <u>A2D0557</u> COC <u>1</u> of <u>1</u>																						
Company: <u>SLR</u>																						
Address: <u>22118 20th Ave SE, Ste G202, Bothell, WA</u>																						
Project Mgr: <u>Greg Lish</u>																						
Project Name: <u>Woodinville CD</u>																						
Phone: <u>(425) 492-8800</u>																						
Email: <u>glish@slrconsulting.com</u>																						
Project #: <u>101.20841.00001</u>																						
PO #																						
Sampled by: <u>Steven Losleben</u>																						
Site Location: <u>OR CA</u>																						
AK ID																						
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-DC	NWTPH-GS	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive	
MW-1-0422	4/12/22	1558	water	5						X												
MW-2-0422		1706								X												
MW-3-0422		1637								X												
MW-11-0422		1600																			X	

Standard Turn Around Time (TAT) = 17 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: \_\_\_\_\_

SPECIAL INSTRUCTIONS: - Vial chloride by 8600 SEM

SAMPLES ARE HELD FOR 30 DAYS			
RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: <u>Steven Losleben</u>	Signature: <u>Greg Lish</u>	Signature: _____	Signature: _____
Date: <u>4/12/22</u>	Date: <u>4/12/22</u>	Date: _____	Date: _____
Printed Name: <u>Steven Losleben</u>	Printed Name: <u>Greg Lish</u>	Printed Name: _____	Printed Name: _____
Time: <u>1600</u>	Time: <u>1635</u>	Time: _____	Time: _____
Company: <u>SLR</u>	Company: <u>Apex</u>	Company: _____	Company: _____

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville CD

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2D0557 - 04 29 22 1635

## APEX LABS COOLER RECEIPT FORM

Client: SLR Element WO#: A2 D0557Project/Project #: Woodinville CD / 101.20841.00001.

## Delivery Info:

Date/time received: 4/14/22 @ 4:55 By: WJDelivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Swift ☐ Senvoy ☐ SDS ☐ Other ☐Cooler Inspection Date/time inspected: 4/14/22 @ 4:55 By: WJChain of Custody included? Yes ☒ No ☐ Custody seals? Yes ☐ No ☒Signed/dated by client? Yes ☒ No ☐Signed/dated by Apex? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>5.4</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition:	<u>Good</u>						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 4/14/22 @ 1627 By: HASAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments:COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒

Comments:

Additional information: 2720 0435 5D16

Labeled by:

HAS

Witness:

DSS

Cooler Inspected by:

HAS

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Monday, July 25, 2022

Mike Staton

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

RE: A2G0380 - Woodinville West - 101.20841.00001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2G0380, which was received by the laboratory on 7/14/2022 at 10:35:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

---

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1

3.1 degC

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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

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503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A2G0380 - 07 25 22 1604**

### ANALYTICAL REPORT FOR SAMPLES

#### SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-0722	A2G0380-01	Water	07/13/22 11:30	07/14/22 10:35
MW-2-0722	A2G0380-02	Water	07/13/22 12:00	07/14/22 10:35
MW-3-0722	A2G0380-03	Water	07/13/22 12:31	07/14/22 10:35
MW-11-0722	A2G0380-04	Water	07/13/22 11:33	07/14/22 10:35

Apex Laboratories

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0722 (A2G0380-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22G0565</b>		
Acetone	ND	10.0	20.0	ug/L	1	07/19/22 19:31	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	07/19/22 19:31	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/19/22 19:31	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/19/22 19:31	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/19/22 19:31	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Chloroethane	ND	5.00	10.0	ug/L	1	07/19/22 19:31	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/19/22 19:31	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0722 (A2G0380-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/19/22 19:31	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/19/22 19:31	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/19/22 19:31	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	07/19/22 19:31	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	07/19/22 19:31	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
<b>Tetrachloroethene (PCE)</b>	<b>0.200</b>	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	<b>J</b>
Toluene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/19/22 19:31	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	07/19/22 19:31	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	07/19/22 19:31	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 110 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/19/22 19:31</i>	<i>EPA 8260D</i>	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0722 (A2G0380-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
Surrogate: Toluene-d8 (Surr)		Recovery: 103 %	Limits: 80-120 %	1	07/19/22 19:31	EPA 8260D		
4-Bromofluorobenzene (Surr)		93 %	80-120 %	1	07/19/22 19:31	EPA 8260D		
<b>MW-2-0722 (A2G0380-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
Acetone	ND	10.0	20.0	ug/L	1	07/19/22 20:25	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/19/22 20:25	EPA 8260D	
<b>Benzene</b>	<b>0.260</b>	0.100	0.200	ug/L	1	07/19/22 20:25	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/19/22 20:25	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/19/22 20:25	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/19/22 20:25	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Chloroethane	ND	5.00	10.0	ug/L	1	07/19/22 20:25	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/19/22 20:25	EPA 8260D	
<b>2-Chlorotoluene</b>	<b>2.58</b>	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0722 (A2G0380-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>0.510</b>	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
<b>Ethylbenzene</b>	<b>0.580</b>	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/19/22 20:25	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/19/22 20:25	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/19/22 20:25	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	07/19/22 20:25	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	07/19/22 20:25	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/19/22 20:25	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0722 (A2G0380-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
<b>m,p-Xylene</b>	<b>0.630</b>	0.500	1.00	ug/L	1	07/19/22 20:25	EPA 8260D	<b>J</b>
<b>o-Xylene</b>	<b>1.07</b>	0.250	0.500	ug/L	1	07/19/22 20:25	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 111 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>07/19/22 20:25</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/19/22 20:25</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>93 %</i>		<i>80-120 %</i>	<i>1</i>	<i>07/19/22 20:25</i>	<i>EPA 8260D</i>	
<b>MW-3-0722 (A2G0380-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
Acetone	ND	10.0	20.0	ug/L	1	07/19/22 20:52	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	07/19/22 20:52	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/19/22 20:52	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/19/22 20:52	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/19/22 20:52	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Chloroethane	ND	5.00	10.0	ug/L	1	07/19/22 20:52	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/19/22 20:52	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-0722 (A2G0380-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/19/22 20:52	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/19/22 20:52	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/19/22 20:52	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	07/19/22 20:52	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	07/19/22 20:52	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/19/22 20:52	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/19/22 20:52	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-0722 (A2G0380-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	07/19/22 20:52	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	07/19/22 20:52	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 113 %	Limits: 80-120 %	1	07/19/22 20:52	EPA 8260D		
Toluene-d8 (Surr)		102 %	80-120 %	1	07/19/22 20:52	EPA 8260D		
4-Bromofluorobenzene (Surr)		92 %	80-120 %	1	07/19/22 20:52	EPA 8260D		
<b>MW-11-0722 (A2G0380-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
Acetone	ND	10.0	20.0	ug/L	1	07/19/22 21:19	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	07/19/22 21:19	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	07/19/22 21:19	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	07/19/22 21:19	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	07/19/22 21:19	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Chloroethane	ND	5.00	10.0	ug/L	1	07/19/22 21:19	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	07/19/22 21:19	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-11-0722 (A2G0380-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	07/19/22 21:19	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	07/19/22 21:19	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	07/19/22 21:19	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	07/19/22 21:19	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	07/19/22 21:19	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
<b>Tetrachloroethene (PCE)</b>	<b>0.240</b>	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	<b>J</b>
Toluene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-11-0722 (A2G0380-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0565</b>			
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	07/19/22 21:19	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	07/19/22 21:19	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	07/19/22 21:19	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 111 %		Limits: 80-120 %	1	07/19/22 21:19	EPA 8260D	
Toluene-d8 (Surr)		103 %		80-120 %	1	07/19/22 21:19	EPA 8260D	
4-Bromofluorobenzene (Surr)		93 %		80-120 %	1	07/19/22 21:19	EPA 8260D	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223  
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ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## ANALYTICAL SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0722 (A2G0380-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0560</b>			
<b>Vinyl chloride</b>	<b>0.0518</b>	0.0100	0.0200	ug/L	1	07/19/22 20:59	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	98 %	Limits:	80-120 %	1	07/19/22 20:59	EPA 8260D SIM
Toluene-d8 (Surr)			99 %		80-120 %	1	07/19/22 20:59	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	07/19/22 20:59	EPA 8260D SIM
<b>MW-2-0722 (A2G0380-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0560</b>			
<b>Vinyl chloride</b>	<b>0.211</b>	0.0100	0.0200	ug/L	1	07/19/22 21:26	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	97 %	Limits:	80-120 %	1	07/19/22 21:26	EPA 8260D SIM
Toluene-d8 (Surr)			98 %		80-120 %	1	07/19/22 21:26	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	07/19/22 21:26	EPA 8260D SIM
<b>MW-3-0722 (A2G0380-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0560</b>			
<b>Vinyl chloride</b>	<b>0.0276</b>	0.0100	0.0200	ug/L	1	07/19/22 21:53	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	97 %	Limits:	80-120 %	1	07/19/22 21:53	EPA 8260D SIM
Toluene-d8 (Surr)			98 %		80-120 %	1	07/19/22 21:53	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	07/19/22 21:53	EPA 8260D SIM
<b>MW-11-0722 (A2G0380-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22G0560</b>			
<b>Vinyl chloride</b>	<b>0.197</b>	0.0100	0.0200	ug/L	1	07/19/22 22:20	EPA 8260D SIM	<b>Q-42</b>
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	97 %	Limits:	80-120 %	1	07/19/22 22:20	EPA 8260D SIM
Toluene-d8 (Surr)			98 %		80-120 %	1	07/19/22 22:20	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			102 %		80-120 %	1	07/19/22 22:20	EPA 8260D SIM

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22G0565 - EPA 5030B						Water						
Blank (22G0565-BLK1)			Prepared: 07/19/22 12:41		Analyzed: 07/19/22 15:55							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

Page 13 of 27



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0565 - EPA 5030B</b>						<b>Water</b>						
<b>Blank (22G0565-BLK1)</b>						Prepared: 07/19/22 12:41 Analyzed: 07/19/22 15:55						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 109 % Limits: 80-120 % Dilution: 1x												

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22G0565 - EPA 5030B						Water						
Blank (22G0565-BLK1)			Prepared: 07/19/22 12:41		Analyzed: 07/19/22 15:55							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						
LCS (22G0565-BS1)			Prepared: 07/19/22 12:41		Analyzed: 07/19/22 13:13							A-01
EPA 8260D												
Acetone	52.8	10.0	20.0	ug/L	1	40.0	---	132	80-120%	---	---	Q-56
Acrylonitrile	20.9	1.00	2.00	ug/L	1	20.0	---	105	80-120%	---	---	
Benzene	20.1	0.100	0.200	ug/L	1	20.0	---	101	80-120%	---	---	
Bromobenzene	17.4	0.250	0.500	ug/L	1	20.0	---	87	80-120%	---	---	
Bromochloromethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromodichloromethane	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
Bromoform	17.8	0.500	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
Bromomethane	13.8	5.00	5.00	ug/L	1	20.0	---	69	80-120%	---	---	Q-55
2-Butanone (MEK)	48.8	5.00	10.0	ug/L	1	40.0	---	122	80-120%	---	---	Q-56
n-Butylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
sec-Butylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
tert-Butylbenzene	17.4	0.500	1.00	ug/L	1	20.0	---	87	80-120%	---	---	
Carbon disulfide	17.3	5.00	10.0	ug/L	1	20.0	---	87	80-120%	---	---	
Carbon tetrachloride	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
Chlorobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Chloroethane	24.0	5.00	10.0	ug/L	1	20.0	---	120	80-120%	---	---	ICV-01
Chloroform	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	31.7	2.50	5.00	ug/L	1	20.0	---	159	80-120%	---	---	Q-56
2-Chlorotoluene	17.6	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
4-Chlorotoluene	18.5	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Dibromochloromethane	17.9	0.500	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.8	2.50	5.00	ug/L	1	20.0	---	84	80-120%	---	---	
1,2-Dibromoethane (EDB)	17.7	0.250	0.500	ug/L	1	20.0	---	89	80-120%	---	---	
Dibromomethane	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichlorobenzene	20.0	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
1,4-Dichlorobenzene	19.6	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dichlorodifluoromethane	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloroethane	20.7	0.200	0.400	ug/L	1	20.0	---	103	80-120%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22G0565 - EPA 5030B						Water						
LCS (22G0565-BS1)						Prepared: 07/19/22 12:41 Analyzed: 07/19/22 13:13						A-01
1,2-Dichloroethane (EDC)	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1-Dichloroethene	19.8	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
cis-1,2-Dichloroethene	19.7	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
trans-1,2-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,3-Dichloropropane	19.7	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
2,2-Dichloropropane	17.7	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
1,1-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
cis-1,3-Dichloropropene	18.1	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
trans-1,3-Dichloropropene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
Ethylbenzene	20.1	0.250	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Hexachlorobutadiene	21.0	2.50	5.00	ug/L	1	20.0	---	105	80-120%	---	---	
2-Hexanone	41.9	5.00	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
Isopropylbenzene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
4-Isopropyltoluene	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Methylene chloride	21.5	5.00	10.0	ug/L	1	20.0	---	107	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	39.2	5.00	10.0	ug/L	1	40.0	---	98	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	16.5	0.500	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
Naphthalene	17.4	1.00	2.00	ug/L	1	20.0	---	87	80-120%	---	---	
n-Propylbenzene	18.9	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Styrene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,1,1,2-Tetrachloroethane	19.9	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Tetrachloroethene (PCE)	20.1	0.200	0.400	ug/L	1	20.0	---	100	80-120%	---	---	
Toluene	18.7	0.500	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,2,3-Trichlorobenzene	20.4	1.00	2.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2,4-Trichlorobenzene	19.6	1.00	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,1-Trichloroethane	18.4	0.200	0.400	ug/L	1	20.0	---	92	80-120%	---	---	
1,1,2-Trichloroethane	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Trichloroethene (TCE)	18.9	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
Trichlorofluoromethane	24.2	1.00	2.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
1,2,3-Trichloropropane	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2,4-Trimethylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
1,3,5-Trimethylbenzene	19.4	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 22G0565 - EPA 5030B</b>						<b>Water</b>						
<b>LCS (22G0565-BS1)</b>			Prepared: 07/19/22 12:41 Analyzed: 07/19/22 13:13						<b>A-01</b>			
Vinyl chloride	20.9	0.200	0.400	ug/L	1	20.0	---	105	80-120%	---	---	
m,p-Xylene	40.9	0.500	1.00	ug/L	1	40.0	---	102	80-120%	---	---	
o-Xylene	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		86 %		80-120 %		"						

**Duplicate (22G0565-DUP1)**

Prepared: 07/19/22 12:41 Analyzed: 07/19/22 19:58

**QC Source Sample: MW-1-0722 (A2G0380-01)****EPA 8260D**

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22G0565 - EPA 5030B						Water						
Duplicate (22G0565-DUP1)			Prepared: 07/19/22 12:41		Analyzed: 07/19/22 19:58							
QC Source Sample: MW-1-0722 (A2G0380-01)												
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	0.250	0.200	0.400	ug/L	1	---	0.200	---	---	22	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22G0565 - EPA 5030B						Water						
Duplicate (22G0565-DUP1)			Prepared: 07/19/22 12:41		Analyzed: 07/19/22 19:58							
QC Source Sample: MW-1-0722 (A2G0380-01)												
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 113 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						

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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22G0560 - EPA 5030B						Water						
Blank (22G0560-BLK1)			Prepared: 07/19/22 11:35		Analyzed: 07/19/22 14:43							
EPA 8260D SIM												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (22G0560-BS1)			Prepared: 07/19/22 11:35		Analyzed: 07/19/22 13:47							
EPA 8260D SIM												
Vinyl chloride	0.184	0.0100	0.0200	ug/L	1	0.200	---	92	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Duplicate (22G0560-DUP1)			Prepared: 07/19/22 11:35		Analyzed: 07/19/22 17:24							
QC Source Sample: Non-SDG (A2G0156-04)												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		97 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		93 %		80-120 %		"						
Matrix Spike (22G0560-MS1)			Prepared: 07/19/22 11:35		Analyzed: 07/19/22 22:46							
QC Source Sample: MW-11-0722 (A2G0380-04)												
EPA 8260D SIM												
Vinyl chloride	0.271	0.0100	0.0200	ug/L	1	0.200	0.197	37	58-137%	---	---	Q-01
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A2G0380 - 07 25 22 1604**

## SAMPLE PREPARATION INFORMATION

## Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22G0565							
A2G0380-01	Water	EPA 8260D	07/13/22 11:30	07/19/22 12:41	5mL/5mL	5mL/5mL	1.00
A2G0380-02	Water	EPA 8260D	07/13/22 12:00	07/19/22 12:41	5mL/5mL	5mL/5mL	1.00
A2G0380-03	Water	EPA 8260D	07/13/22 12:31	07/19/22 12:41	5mL/5mL	5mL/5mL	1.00
A2G0380-04	Water	EPA 8260D	07/13/22 11:33	07/19/22 12:41	5mL/5mL	5mL/5mL	1.00

## Vinyl Chloride by EPA 8260D SIM

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 22G0560							
A2G0380-01	Water	EPA 8260D SIM	07/13/22 11:30	07/19/22 11:36	5mL/5mL	5mL/5mL	1.00
A2G0380-02	Water	EPA 8260D SIM	07/13/22 12:00	07/19/22 11:36	5mL/5mL	5mL/5mL	1.00
A2G0380-03	Water	EPA 8260D SIM	07/13/22 12:31	07/19/22 11:36	5mL/5mL	5mL/5mL	1.00
A2G0380-04	Water	EPA 8260D SIM	07/13/22 11:33	07/19/22 11:36	5mL/5mL	5mL/5mL	1.00

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Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A2G0380 - 07 25 22 1604**

## QUALIFIER DEFINITIONS

**Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

**Apex Laboratories**

- A-01** Due to preparation error, not all Batch QC samples were analyzed. The batch is accepted based on the recoveries of the Blank Spike (BS).
- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

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Project Manager: **Mike Staton**

**Report ID:**

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### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Mike Staton**

**Report ID:**

**A2G0380 - 07 25 22 1604**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

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Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A2G0380 - 07 25 22 1604**

### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

APEX LABS		CHAIN OF CUSTODY		Lab # <u>R660760</u> COC <u>1</u> of <u>1</u>																				
Company: <u>SLR</u>	Project Mgr: <u>Greg Lish</u>	Project Name: <u>Woodinville West Business Park</u>	Project #: <u>01.20841.00001</u>																					
Address: <u>2410 20th Ave SE, Suite G202, Bothell</u>	Phone: <u>425 402 8800</u>	Email: <u>glish@slr.com</u>	PO #																					
<p>Sampled by: <u>Spencer L</u></p> <p>Site Location: <u>OR WA CA</u></p> <p>AK ID: <u>---</u></p>																								
SAMPLE ID		LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List 8260	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Hg, Mn, Ni, Mo, N, K, Se, Ag, Na, Ti, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Archive	
MW-2-0722		7-13-22	11:30	water	5								X											
MW-2-0722													X											
MW-3-0722													X											
MW-11-0722																								
<p>SPECIAL INSTRUCTIONS: <u>UVA chloride by 8260 SIM</u></p> <p>Normal Turn Around Time (TAT) = 10 Business Days</p> <p>TAT Requested (circle): <u>1 Day</u> 2 Day 3 Day 4 DAY 5 DAY Other: _____</p>																								
RELINQUISHED BY:		RECEIVED BY:		SAMPLER HELD FOR 30 DAYS																				
Signature: <u>Spencer L</u>	Date: <u>7-13-22</u>	Signature: <u>[Signature]</u>	Date: <u>7-14-22</u>	Signature: <u>[Signature]</u>	Date: <u>7-14-22</u>																			
Printed Name: <u>Spencer L</u>	Time: <u>1530</u>	Printed Name: <u>[Name]</u>	Time: <u>1035</u>	Printed Name: <u>[Name]</u>	Time: <u>1035</u>																			
Company: <u>SLR</u>		Company: <u>Apex</u>		Company: <u>Apex</u>																				



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A2G0380 - 07 25 22 1604

## APEX LABS COOLER RECEIPT FORM

Client:

SLR

Element WO#:

A2 G0380

Project/Project #:

Woodinville West Business Park 101.20841.00001

## Delivery Info:

Date/time received:

7/14/22 @ 1035

By:

JS

Delivered by: Apex

Client

ESS

FedEx

X UPS

Swift

Senvoy

SDS

Other

## Cooler Inspection

Date/time inspected:

7/14/22 @ 1036

By:

JS

Chain of Custody included?

Yes

X No

Custody seals?

Yes

No

Signed/dated by client?

Yes

X No

Signed/dated by Apex?

Yes

X No

Temperature (°C)

Cooler #1

Cooler #2

Cooler #3

Cooler #4

Cooler #5

Cooler #6

Cooler #7

Received on ice? (Y/N)

Y

Temp. blanks? (Y/N)

N

Ice type: (Gel/Real/Other)

Real

Condition:

good

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected:

7/14/22 @ 1204

By:

AKC

All samples intact? Yes

X No

Comments:

Bottle labels/COCs agree? Yes

X No

Comments:

COC/container discrepancies form initiated? Yes

No

X

Containers/volumes received appropriate for analysis? Yes

X No

Comments:

Do VOA vials have visible headspace? Yes

No

X NA

Comments:

Water samples: pH checked: Yes

No

NA

X pH appropriate? Yes

No

NA

X

Comments:

Additional information:

2755 16548840

Labeled by:

AKC

Witness:

ZAM

Cooler Inspected by:

AKC

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Thursday, October 27, 2022

Greg Lish  
SLR Corporation-Bothell  
22118 20th Ave SE, Suite G202  
Bothell, WA 98021

RE: A2J0415 - Woodinville West - 101.20841.00001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2J0415, which was received by the laboratory on 10/13/2022 at 11:08:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1	1.4 degC
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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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503-718-2323  
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-1022	A2J0415-01	Water	10/12/22 11:54	10/13/22 11:08
MW-2-1022	A2J0415-02	Water	10/12/22 12:42	10/13/22 11:08
MW-3-1022	A2J0415-03	Water	10/12/22 13:33	10/13/22 11:08
MW-11-1022	A2J0415-04	Water	10/12/22 12:07	10/13/22 11:08

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
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503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-1022 (A2J0415-01)</b>				<b>Matrix: Water</b>		<b>Batch: 22J0701</b>		
Acetone	ND	---	20.0	ug/L	1	10/18/22 15:30	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	10/18/22 15:30	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	10/18/22 15:30	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	10/18/22 15:30	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	10/18/22 15:30	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	10/18/22 15:30	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-1022 (A2J0415-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
1,2-Dichloropropane	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	10/18/22 15:30	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	10/18/22 15:30	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	10/18/22 15:30	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	10/18/22 15:30	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	10/18/22 15:30	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	10/18/22 15:30	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	10/18/22 15:30	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	10/18/22 15:30	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %	1	10/18/22 15:30	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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503-718-2323  
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Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-1022 (A2J0415-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Surrogate: Toluene-d8 (Surr)		Recovery: 103 %	Limits: 80-120 %	1	10/18/22 15:30	EPA 8260D		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	10/18/22 15:30	EPA 8260D		
<b>MW-2-1022 (A2J0415-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Acetone	ND	---	20.0	ug/L	1	10/18/22 15:51	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	10/18/22 15:51	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	10/18/22 15:51	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	10/18/22 15:51	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	10/18/22 15:51	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	10/18/22 15:51	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-1022 (A2J0415-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
1,1-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	10/18/22 15:51	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	10/18/22 15:51	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	10/18/22 15:51	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	10/18/22 15:51	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	10/18/22 15:51	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001  
Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-1022 (A2J0415-02)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Vinyl chloride	0.930	---	0.400	ug/L	1	10/18/22 15:51	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	10/18/22 15:51	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	10/18/22 15:51	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %	1	10/18/22 15:51	EPA 8260D	
Toluene-d8 (Surr)		102 %		80-120 %	1	10/18/22 15:51	EPA 8260D	
4-Bromofluorobenzene (Surr)		99 %		80-120 %	1	10/18/22 15:51	EPA 8260D	
<b>MW-3-1022 (A2J0415-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Acetone	ND	---	20.0	ug/L	1	10/18/22 16:13	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	10/18/22 16:13	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	10/18/22 16:13	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	10/18/22 16:13	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	10/18/22 16:13	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	10/18/22 16:13	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Dibromomethane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville WestProject Number: 101.20841.00001  
Project Manager: Greg LishReport ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-1022 (A2J0415-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	10/18/22 16:13	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	10/18/22 16:13	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	10/18/22 16:13	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	10/18/22 16:13	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	10/18/22 16:13	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	10/18/22 16:13	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-1022 (A2J0415-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Trichlorofluoromethane	ND	---	2.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	10/18/22 16:13	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	10/18/22 16:13	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>101 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>10/18/22 16:13</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/18/22 16:13</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/18/22 16:13</i>	<i>EPA 8260D</i>
<b>MW-11-1022 (A2J0415-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Acetone	ND	---	20.0	ug/L	1	10/18/22 16:34	EPA 8260D	
Acrylonitrile	ND	---	2.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Benzene	ND	---	0.200	ug/L	1	10/18/22 16:34	EPA 8260D	
Bromobenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Bromochloromethane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Bromodichloromethane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Bromoform	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Bromomethane	ND	---	5.00	ug/L	1	10/18/22 16:34	EPA 8260D	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	10/18/22 16:34	EPA 8260D	
n-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
sec-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
tert-Butylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Carbon disulfide	ND	---	10.0	ug/L	1	10/18/22 16:34	EPA 8260D	
Carbon tetrachloride	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Chlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Chloroethane	ND	---	5.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Chloroform	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Chloromethane	ND	---	5.00	ug/L	1	10/18/22 16:34	EPA 8260D	
2-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
4-Chlorotoluene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Dibromochloromethane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-11-1022 (A2J0415-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
Dibromomethane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2-Dichloropropane	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Ethylbenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	10/18/22 16:34	EPA 8260D	
2-Hexanone	ND	---	10.0	ug/L	1	10/18/22 16:34	EPA 8260D	
Isopropylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Methylene chloride	ND	---	10.0	ug/L	1	10/18/22 16:34	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	---	10.0	ug/L	1	10/18/22 16:34	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
Naphthalene	ND	---	2.00	ug/L	1	10/18/22 16:34	EPA 8260D	
n-Propylbenzene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Styrene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
Toluene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	10/18/22 16:34	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-11-1022 (A2J0415-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0701</b>			
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	10/18/22 16:34	EPA 8260D	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
m,p-Xylene	ND	---	1.00	ug/L	1	10/18/22 16:34	EPA 8260D	
o-Xylene	ND	---	0.500	ug/L	1	10/18/22 16:34	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	10/18/22 16:34	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	10/18/22 16:34	EPA 8260D
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	10/18/22 16:34	EPA 8260D

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## ANALYTICAL SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-1022 (A2J0415-01)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0931</b>			
<b>Vinyl chloride</b>	<b>0.0360</b>	---	0.0200	ug/L	1	10/24/22 16:07	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>94 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>10/24/22 16:07</i>	<i>EPA 8260D SIM</i>
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/24/22 16:07</i>	<i>EPA 8260D SIM</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/24/22 16:07</i>	<i>EPA 8260D SIM</i>
<b>MW-3-1022 (A2J0415-03)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0931</b>			
<b>Vinyl chloride</b>	<b>0.0542</b>	---	0.0200	ug/L	1	10/24/22 16:34	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>94 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>10/24/22 16:34</i>	<i>EPA 8260D SIM</i>
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/24/22 16:34</i>	<i>EPA 8260D SIM</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/24/22 16:34</i>	<i>EPA 8260D SIM</i>
<b>MW-11-1022 (A2J0415-04)</b>		<b>Matrix: Water</b>			<b>Batch: 22J0931</b>			
<b>Vinyl chloride</b>	<b>0.0338</b>	---	0.0200	ug/L	1	10/24/22 17:00	EPA 8260D SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>94 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>10/24/22 17:00</i>	<i>EPA 8260D SIM</i>
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/24/22 17:00</i>	<i>EPA 8260D SIM</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/24/22 17:00</i>	<i>EPA 8260D SIM</i>

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Blank (22J0701-BLK1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 13:01							
EPA 8260D												
Acetone	ND	---	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	---	0.400	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Blank (22J0701-BLK1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 13:01							
1,2-Dichloropropane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						

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Philip Nerenberg, Lab Director

Page 14 of 31



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Blank (22J0701-BLK1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 13:01							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (22J0701-BS1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 12:18							
EPA 8260D												
Acetone	39.6	---	20.0	ug/L	1	40.0	---	99	80-120%	---	---	
Acrylonitrile	19.6	---	2.00	ug/L	1	20.0	---	98	80-120%	---	---	
Benzene	19.7	---	0.200	ug/L	1	20.0	---	99	80-120%	---	---	
Bromobenzene	18.6	---	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Bromochloromethane	21.6	---	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Bromodichloromethane	20.2	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromoform	22.1	---	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Bromomethane	16.3	---	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
2-Butanone (MEK)	42.0	---	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
n-Butylbenzene	22.0	---	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
sec-Butylbenzene	22.9	---	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
tert-Butylbenzene	22.0	---	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Carbon disulfide	20.1	---	10.0	ug/L	1	20.0	---	101	80-120%	---	---	
Carbon tetrachloride	21.8	---	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Chlorobenzene	19.7	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Chloroethane	21.5	---	5.00	ug/L	1	20.0	---	108	80-120%	---	---	
Chloroform	20.3	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	18.4	---	5.00	ug/L	1	20.0	---	92	80-120%	---	---	
2-Chlorotoluene	20.0	---	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
4-Chlorotoluene	21.4	---	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Dibromochloromethane	21.0	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.7	---	5.00	ug/L	1	20.0	---	93	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.5	---	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Dibromomethane	20.4	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
1,2-Dichlorobenzene	19.7	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichlorobenzene	20.3	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,4-Dichlorobenzene	19.0	---	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Dichlorodifluoromethane	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,1-Dichloroethane	20.0	---	0.400	ug/L	1	20.0	---	100	80-120%	---	---	

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Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
LCS (22J0701-BS1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 12:18							
1,2-Dichloroethane (EDC)	19.6	---	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,1-Dichloroethene	22.0	---	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
cis-1,2-Dichloroethene	20.3	---	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,2-Dichloroethene	20.3	---	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dichloropropane	19.7	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
1,3-Dichloropropane	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
2,2-Dichloropropane	21.6	---	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,1-Dichloropropene	21.0	---	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
cis-1,3-Dichloropropene	21.5	---	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
trans-1,3-Dichloropropene	22.6	---	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Ethylbenzene	21.2	---	0.500	ug/L	1	20.0	---	106	80-120%	---	---	
Hexachlorobutadiene	19.7	---	5.00	ug/L	1	20.0	---	98	80-120%	---	---	
2-Hexanone	42.1	---	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
Isopropylbenzene	23.0	---	1.00	ug/L	1	20.0	---	115	80-120%	---	---	
4-Isopropyltoluene	22.1	---	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Methylene chloride	18.9	---	10.0	ug/L	1	20.0	---	94	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	44.2	---	10.0	ug/L	1	40.0	---	110	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.3	---	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Naphthalene	18.4	---	2.00	ug/L	1	20.0	---	92	80-120%	---	---	
n-Propylbenzene	21.0	---	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
Styrene	22.2	---	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
1,1,1,2-Tetrachloroethane	21.1	---	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.0	---	0.500	ug/L	1	20.0	---	100	80-120%	---	---	
Tetrachloroethene (PCE)	19.4	---	0.400	ug/L	1	20.0	---	97	80-120%	---	---	
Toluene	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,3-Trichlorobenzene	20.5	---	2.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,2,4-Trichlorobenzene	18.9	---	2.00	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,1-Trichloroethane	20.4	---	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,2-Trichloroethane	20.7	---	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Trichloroethene (TCE)	18.9	---	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
Trichlorofluoromethane	22.5	---	2.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,2,3-Trichloropropane	19.6	---	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2,4-Trimethylbenzene	22.4	---	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,3,5-Trimethylbenzene	22.4	---	1.00	ug/L	1	20.0	---	112	80-120%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
LCS (22J0701-BS1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 12:18							
Vinyl chloride	19.8	---	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
m,p-Xylene	45.1	---	1.00	ug/L	1	40.0	---	113	80-120%	---	---	
o-Xylene	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 96 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						

**Duplicate (22J0701-DUP1)**

Prepared: 10/18/22 09:53 Analyzed: 10/18/22 19:25

**QC Source Sample: Non-SDG (A2J0355-05)**

Acetone	ND	---	200	ug/L	10	---	ND	---	---	---	30%
Acrylonitrile	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%
Benzene	ND	---	2.00	ug/L	10	---	ND	---	---	---	30%
Bromobenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%
Bromochloromethane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Bromodichloromethane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Bromoform	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Bromomethane	ND	---	50.0	ug/L	10	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	---	100	ug/L	10	---	ND	---	---	---	30%
n-Butylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
sec-Butylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
tert-Butylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Carbon disulfide	ND	---	100	ug/L	10	---	ND	---	---	---	30%
Carbon tetrachloride	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Chlorobenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%
Chloroethane	ND	---	50.0	ug/L	10	---	ND	---	---	---	30%
Chloroform	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Chloromethane	ND	---	50.0	ug/L	10	---	ND	---	---	---	30%
2-Chlorotoluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
4-Chlorotoluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
Dibromochloromethane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	---	50.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%
Dibromomethane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Duplicate (22J0701-DUP1)			Prepared: 10/18/22 09:53    Analyzed: 10/18/22 19:25									
QC Source Sample: Non-SDG (A2J0355-05)												
1,3-Dichlorobenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	50.0	ug/L	10	---	ND	---	---	---	30%	
2-Hexanone	ND	---	100	ug/L	10	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Methylene chloride	ND	---	100	ug/L	10	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	100	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Styrene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Duplicate (22J0701-DUP1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 19:25							
QC Source Sample: Non-SDG (A2J0355-05)												
Trichloroethene (TCE)	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	4.00	ug/L	10	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
o-Xylene	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

**Matrix Spike (22J0701-MS1)**

Prepared: 10/18/22 09:53 Analyzed: 10/18/22 17:17

**QC Source Sample: Non-SDG (A2J0443-05)****EPA 8260D**

Acetone	45.6	---	20.0	ug/L	1	40.0	ND	114	39-160%	---	---	
Acrylonitrile	20.7	---	2.00	ug/L	1	20.0	ND	104	63-135%	---	---	
Benzene	22.6	---	0.200	ug/L	1	20.0	ND	113	79-120%	---	---	
Bromobenzene	19.5	---	0.500	ug/L	1	20.0	ND	98	80-120%	---	---	
Bromochloromethane	22.8	---	1.00	ug/L	1	20.0	ND	114	78-123%	---	---	
Bromodichloromethane	22.2	---	1.00	ug/L	1	20.0	ND	111	79-125%	---	---	
Bromoform	23.5	---	1.00	ug/L	1	20.0	ND	118	66-130%	---	---	
Bromomethane	18.8	---	5.00	ug/L	1	20.0	ND	94	53-141%	---	---	
2-Butanone (MEK)	47.3	---	10.0	ug/L	1	40.0	ND	118	56-143%	---	---	
n-Butylbenzene	24.1	---	1.00	ug/L	1	20.0	ND	121	75-128%	---	---	
sec-Butylbenzene	24.8	---	1.00	ug/L	1	20.0	ND	124	77-126%	---	---	
tert-Butylbenzene	23.4	---	1.00	ug/L	1	20.0	ND	117	78-124%	---	---	
Carbon disulfide	22.9	---	10.0	ug/L	1	20.0	ND	114	64-133%	---	---	
Carbon tetrachloride	24.8	---	1.00	ug/L	1	20.0	ND	124	72-136%	---	---	
Chlorobenzene	21.0	---	0.500	ug/L	1	20.0	ND	105	80-120%	---	---	
Chloroethane	23.4	---	5.00	ug/L	1	20.0	ND	117	60-138%	---	---	
Chloroform	22.4	---	1.00	ug/L	1	20.0	ND	112	79-124%	---	---	
Chloromethane	20.5	---	5.00	ug/L	1	20.0	ND	102	50-139%	---	---	

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## ANALYTICAL REPORT

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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Matrix Spike (22J0701-MS1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 17:17							
QC Source Sample: Non-SDG (A2J0443-05)												
2-Chlorotoluene	21.6	---	1.00	ug/L	1	20.0	ND	108	79-122%	---	---	
4-Chlorotoluene	22.5	---	1.00	ug/L	1	20.0	ND	112	78-122%	---	---	
Dibromochloromethane	22.0	---	1.00	ug/L	1	20.0	ND	110	74-126%	---	---	
1,2-Dibromo-3-chloropropane	20.1	---	5.00	ug/L	1	20.0	ND	101	62-128%	---	---	
1,2-Dibromoethane (EDB)	21.6	---	0.500	ug/L	1	20.0	ND	108	77-121%	---	---	
Dibromomethane	22.5	---	1.00	ug/L	1	20.0	ND	113	79-123%	---	---	
1,2-Dichlorobenzene	20.9	---	0.500	ug/L	1	20.0	ND	104	80-120%	---	---	
1,3-Dichlorobenzene	21.2	---	0.500	ug/L	1	20.0	ND	106	80-120%	---	---	
1,4-Dichlorobenzene	20.1	---	0.500	ug/L	1	20.0	ND	101	79-120%	---	---	
Dichlorodifluoromethane	24.2	---	1.00	ug/L	1	20.0	ND	121	32-152%	---	---	
1,1-Dichloroethane	22.0	---	0.400	ug/L	1	20.0	ND	110	77-125%	---	---	
1,2-Dichloroethane (EDC)	20.9	---	0.400	ug/L	1	20.0	ND	104	73-128%	---	---	
1,1-Dichloroethene	24.3	---	0.400	ug/L	1	20.0	ND	121	71-131%	---	---	
cis-1,2-Dichloroethene	21.7	---	0.400	ug/L	1	20.0	ND	109	78-123%	---	---	
trans-1,2-Dichloroethene	23.4	---	0.400	ug/L	1	20.0	ND	117	75-124%	---	---	
1,2-Dichloropropane	21.8	---	0.500	ug/L	1	20.0	ND	109	78-122%	---	---	
1,3-Dichloropropane	21.8	---	1.00	ug/L	1	20.0	ND	109	80-120%	---	---	
2,2-Dichloropropane	23.1	---	1.00	ug/L	1	20.0	ND	115	60-139%	---	---	
1,1-Dichloropropene	24.1	---	1.00	ug/L	1	20.0	ND	121	79-125%	---	---	
cis-1,3-Dichloropropene	20.2	---	1.00	ug/L	1	20.0	ND	101	75-124%	---	---	
trans-1,3-Dichloropropene	23.3	---	1.00	ug/L	1	20.0	ND	116	73-127%	---	---	
Ethylbenzene	22.8	---	0.500	ug/L	1	20.0	ND	114	79-121%	---	---	
Hexachlorobutadiene	20.2	---	5.00	ug/L	1	20.0	ND	101	66-134%	---	---	
2-Hexanone	46.0	---	10.0	ug/L	1	40.0	ND	115	57-139%	---	---	
Isopropylbenzene	24.7	---	1.00	ug/L	1	20.0	ND	123	72-131%	---	---	
4-Isopropyltoluene	23.6	---	1.00	ug/L	1	20.0	ND	118	77-127%	---	---	
Methylene chloride	20.2	---	10.0	ug/L	1	20.0	ND	101	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	47.3	---	10.0	ug/L	1	40.0	ND	118	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	21.2	---	1.00	ug/L	1	20.0	ND	106	71-124%	---	---	
Naphthalene	19.4	---	2.00	ug/L	1	20.0	ND	97	61-128%	---	---	
n-Propylbenzene	23.0	---	0.500	ug/L	1	20.0	ND	115	76-126%	---	---	
Styrene	22.2	---	1.00	ug/L	1	20.0	ND	111	78-123%	---	---	
1,1,1,2-Tetrachloroethane	22.3	---	0.400	ug/L	1	20.0	ND	112	78-124%	---	---	

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Philip Nerenberg, Lab Director



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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Matrix Spike (22J0701-MS1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 17:17							
QC Source Sample: Non-SDG (A2J0443-05)												
1,1,2,2-Tetrachloroethane	21.2	---	0.500	ug/L	1	20.0	ND	106	71-121%	---	---	Q-01
Tetrachloroethene (PCE)	21.2	---	0.400	ug/L	1	20.0	ND	106	74-129%	---	---	
Toluene	20.6	---	1.00	ug/L	1	20.0	ND	103	80-121%	---	---	
1,2,3-Trichlorobenzene	21.6	---	2.00	ug/L	1	20.0	ND	108	69-129%	---	---	
1,2,4-Trichlorobenzene	19.8	---	2.00	ug/L	1	20.0	ND	99	69-130%	---	---	
1,1,1-Trichloroethane	23.3	---	0.400	ug/L	1	20.0	ND	117	74-131%	---	---	
1,1,2-Trichloroethane	21.5	---	0.500	ug/L	1	20.0	ND	107	80-120%	---	---	
Trichloroethene (TCE)	20.8	---	0.400	ug/L	1	20.0	ND	104	79-123%	---	---	
Trichlorofluoromethane	26.5	---	2.00	ug/L	1	20.0	ND	132	65-141%	---	---	
1,2,3-Trichloropropane	20.2	---	1.00	ug/L	1	20.0	ND	101	73-122%	---	---	
1,2,4-Trimethylbenzene	23.3	---	1.00	ug/L	1	20.0	ND	117	76-124%	---	---	
1,3,5-Trimethylbenzene	24.0	---	1.00	ug/L	1	20.0	ND	120	75-124%	---	---	
Vinyl chloride	23.7	---	0.400	ug/L	1	20.0	ND	119	58-137%	---	---	
m,p-Xylene	48.6	---	1.00	ug/L	1	40.0	ND	122	80-121%	---	---	
o-Xylene	22.6	---	0.500	ug/L	1	20.0	ND	113	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		94 %		80-120 %		"						

**Matrix Spike Dup (22J0701-MSD1)**

Prepared: 10/18/22 09:53 Analyzed: 10/18/22 17:38

<b>QC Source Sample: Non-SDG (A2J0443-05)</b>												
Acetone	44.2	---	20.0	ug/L	1	40.0	ND	111	39-160%	3	30%	
Acrylonitrile	22.1	---	2.00	ug/L	1	20.0	ND	111	63-135%	7	30%	
Benzene	22.2	---	0.200	ug/L	1	20.0	ND	111	79-120%	2	30%	
Bromobenzene	19.9	---	0.500	ug/L	1	20.0	ND	100	80-120%	2	30%	
Bromochloromethane	21.9	---	1.00	ug/L	1	20.0	ND	110	78-123%	4	30%	
Bromodichloromethane	21.2	---	1.00	ug/L	1	20.0	ND	106	79-125%	4	30%	
Bromoform	22.7	---	1.00	ug/L	1	20.0	ND	113	66-130%	4	30%	
Bromomethane	20.2	---	5.00	ug/L	1	20.0	ND	101	53-141%	7	30%	
2-Butanone (MEK)	44.8	---	10.0	ug/L	1	40.0	ND	112	56-143%	5	30%	
n-Butylbenzene	24.1	---	1.00	ug/L	1	20.0	ND	121	75-128%	0.1	30%	
sec-Butylbenzene	25.2	---	1.00	ug/L	1	20.0	ND	126	77-126%	2	30%	
tert-Butylbenzene	23.4	---	1.00	ug/L	1	20.0	ND	117	78-124%	0.4	30%	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Matrix Spike Dup (22J0701-MSD1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 17:38							
QC Source Sample: Non-SDG (A2J0443-05)												
Carbon disulfide	22.7	---	10.0	ug/L	1	20.0	ND	113	64-133%	1	30%	
Carbon tetrachloride	24.7	---	1.00	ug/L	1	20.0	ND	124	72-136%	0.4	30%	
Chlorobenzene	20.4	---	0.500	ug/L	1	20.0	ND	102	80-120%	3	30%	
Chloroethane	23.2	---	5.00	ug/L	1	20.0	ND	116	60-138%	0.6	30%	
Chloroform	21.4	---	1.00	ug/L	1	20.0	ND	107	79-124%	4	30%	
Chloromethane	22.6	---	5.00	ug/L	1	20.0	ND	113	50-139%	10	30%	
2-Chlorotoluene	21.4	---	1.00	ug/L	1	20.0	ND	107	79-122%	0.6	30%	
4-Chlorotoluene	22.8	---	1.00	ug/L	1	20.0	ND	114	78-122%	2	30%	
Dibromochloromethane	21.3	---	1.00	ug/L	1	20.0	ND	106	74-126%	3	30%	
1,2-Dibromo-3-chloropropane	20.0	---	5.00	ug/L	1	20.0	ND	100	62-128%	0.9	30%	
1,2-Dibromoethane (EDB)	21.5	---	0.500	ug/L	1	20.0	ND	107	77-121%	0.7	30%	
Dibromomethane	21.6	---	1.00	ug/L	1	20.0	ND	108	79-123%	4	30%	
1,2-Dichlorobenzene	21.2	---	0.500	ug/L	1	20.0	ND	106	80-120%	1	30%	
1,3-Dichlorobenzene	21.5	---	0.500	ug/L	1	20.0	ND	108	80-120%	2	30%	
1,4-Dichlorobenzene	20.1	---	0.500	ug/L	1	20.0	ND	100	79-120%	0.2	30%	
Dichlorodifluoromethane	25.3	---	1.00	ug/L	1	20.0	ND	127	32-152%	5	30%	
1,1-Dichloroethane	21.4	---	0.400	ug/L	1	20.0	ND	107	77-125%	3	30%	
1,2-Dichloroethane (EDC)	20.4	---	0.400	ug/L	1	20.0	ND	102	73-128%	2	30%	
1,1-Dichloroethene	24.2	---	0.400	ug/L	1	20.0	ND	121	71-131%	0.2	30%	
cis-1,2-Dichloroethene	21.4	---	0.400	ug/L	1	20.0	ND	107	78-123%	1	30%	
trans-1,2-Dichloroethene	22.3	---	0.400	ug/L	1	20.0	ND	111	75-124%	5	30%	
1,2-Dichloropropane	21.4	---	0.500	ug/L	1	20.0	ND	107	78-122%	1	30%	
1,3-Dichloropropane	21.4	---	1.00	ug/L	1	20.0	ND	107	80-120%	2	30%	
2,2-Dichloropropane	22.5	---	1.00	ug/L	1	20.0	ND	113	60-139%	2	30%	
1,1-Dichloropropene	23.6	---	1.00	ug/L	1	20.0	ND	118	79-125%	2	30%	
cis-1,3-Dichloropropene	19.7	---	1.00	ug/L	1	20.0	ND	99	75-124%	2	30%	
trans-1,3-Dichloropropene	23.0	---	1.00	ug/L	1	20.0	ND	115	73-127%	1	30%	
Ethylbenzene	22.5	---	0.500	ug/L	1	20.0	ND	112	79-121%	1	30%	
Hexachlorobutadiene	20.3	---	5.00	ug/L	1	20.0	ND	101	66-134%	0.4	30%	
2-Hexanone	45.9	---	10.0	ug/L	1	40.0	ND	115	57-139%	0.3	30%	
Isopropylbenzene	24.8	---	1.00	ug/L	1	20.0	ND	124	72-131%	0.4	30%	
4-Isopropyltoluene	23.9	---	1.00	ug/L	1	20.0	ND	120	77-127%	2	30%	
Methylene chloride	19.9	---	10.0	ug/L	1	20.0	ND	99	74-124%	2	30%	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0701 - EPA 5030C						Water						
Matrix Spike Dup (22J0701-MSD1)			Prepared: 10/18/22 09:53		Analyzed: 10/18/22 17:38							
QC Source Sample: Non-SDG (A2J0443-05)												
4-Methyl-2-pentanone (MiBK)	47.5	---	10.0	ug/L	1	40.0	ND	119	67-130%	0.5	30%	
Methyl tert-butyl ether (MTBE)	20.8	---	1.00	ug/L	1	20.0	ND	104	71-124%	2	30%	
Naphthalene	19.6	---	2.00	ug/L	1	20.0	ND	98	61-128%	0.8	30%	
n-Propylbenzene	23.1	---	0.500	ug/L	1	20.0	ND	115	76-126%	0.2	30%	
Styrene	21.8	---	1.00	ug/L	1	20.0	ND	109	78-123%	2	30%	
1,1,1,2-Tetrachloroethane	21.3	---	0.400	ug/L	1	20.0	ND	107	78-124%	5	30%	
1,1,2,2-Tetrachloroethane	21.8	---	0.500	ug/L	1	20.0	ND	109	71-121%	3	30%	
Tetrachloroethene (PCE)	21.2	---	0.400	ug/L	1	20.0	ND	106	74-129%	0.4	30%	
Toluene	20.2	---	1.00	ug/L	1	20.0	ND	101	80-121%	2	30%	
1,2,3-Trichlorobenzene	21.9	---	2.00	ug/L	1	20.0	ND	110	69-129%	1	30%	
1,2,4-Trichlorobenzene	20.3	---	2.00	ug/L	1	20.0	ND	101	69-130%	3	30%	
1,1,1-Trichloroethane	22.5	---	0.400	ug/L	1	20.0	ND	112	74-131%	4	30%	
1,1,2-Trichloroethane	21.0	---	0.500	ug/L	1	20.0	ND	105	80-120%	2	30%	
Trichloroethene (TCE)	20.6	---	0.400	ug/L	1	20.0	ND	103	79-123%	0.9	30%	
Trichlorofluoromethane	25.8	---	2.00	ug/L	1	20.0	ND	129	65-141%	2	30%	
1,2,3-Trichloropropane	20.4	---	1.00	ug/L	1	20.0	ND	102	73-122%	1	30%	
1,2,4-Trimethylbenzene	23.4	---	1.00	ug/L	1	20.0	ND	117	76-124%	0.1	30%	
1,3,5-Trimethylbenzene	24.1	---	1.00	ug/L	1	20.0	ND	120	75-124%	0.5	30%	
Vinyl chloride	25.3	---	0.400	ug/L	1	20.0	ND	127	58-137%	7	30%	
m,p-Xylene	47.9	---	1.00	ug/L	1	40.0	ND	120	80-121%	1	30%	
o-Xylene	22.6	---	0.500	ug/L	1	20.0	ND	113	78-122%	0.4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22J0931 - EPA 5030C						Water						
Blank (22J0931-BLK1)			Prepared: 10/24/22 11:35   Analyzed: 10/24/22 15:13									
EPA 8260D SIM												
Vinyl chloride	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		104 %		80-120 %		"						
LCS (22J0931-BS1)			Prepared: 10/24/22 11:35   Analyzed: 10/24/22 14:16									
EPA 8260D SIM												
Vinyl chloride	0.222	---	0.0200	ug/L	1	0.200	---	111	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 94 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Duplicate (22J0931-DUP1)			Prepared: 10/24/22 11:35   Analyzed: 10/24/22 21:29									
QC Source Sample: Non-SDG (A2J0499-12)												
Vinyl chloride	0.168	---	0.0200	ug/L	1	---	0.168	---	---	0.2	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 97 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		92 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		105 %		80-120 %		"						
Matrix Spike (22J0931-MS1)			Prepared: 10/24/22 11:35   Analyzed: 10/24/22 23:43									
QC Source Sample: Non-SDG (A2J0527-02)												
EPA 8260D SIM												
Vinyl chloride	6.34	---	0.500	ug/L	25	5.00	ND	127	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 92 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Greg Lish****Report ID:****A2J0415 - 10 27 22 1207****SAMPLE PREPARATION INFORMATION****Volatile Organic Compounds by EPA 8260D****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 22J0701</b>							
A2J0415-01	Water	EPA 8260D	10/12/22 11:54	10/18/22 09:53	5mL/5mL	5mL/5mL	1.00
A2J0415-02	Water	EPA 8260D	10/12/22 12:42	10/18/22 09:53	5mL/5mL	5mL/5mL	1.00
A2J0415-03	Water	EPA 8260D	10/12/22 13:33	10/18/22 09:53	5mL/5mL	5mL/5mL	1.00
A2J0415-04	Water	EPA 8260D	10/12/22 12:07	10/18/22 09:53	5mL/5mL	5mL/5mL	1.00

**Vinyl Chloride by EPA 8260D SIM****Prep: EPA 5030C**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<b>Batch: 22J0931</b>							
A2J0415-01	Water	EPA 8260D SIM	10/12/22 11:54	10/24/22 11:35	5mL/5mL	5mL/5mL	1.00
A2J0415-03	Water	EPA 8260D SIM	10/12/22 13:33	10/24/22 11:35	5mL/5mL	5mL/5mL	1.00
A2J0415-04	Water	EPA 8260D SIM	10/12/22 12:07	10/24/22 11:35	5mL/5mL	5mL/5mL	1.00

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22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

Q-01 Spike recovery and/or RPD is outside acceptance limits.

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Greg Lish**

**Report ID:**

**A2J0415 - 10 27 22 1207**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.  
  
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.  
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.  
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.  
  
" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).  
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.  
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.  
For further details, please request a copy of this document.

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Greg Lish**

**Report ID:**

**A2J0415 - 10 27 22 1207**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Greg Lish**

**Report ID:**

**A2J0415 - 10 27 22 1207**

### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville WestProject Number: 101.20841.00001Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

APEX LABS 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323				CHAIN OF CUSTODY				Company: SLR Project Mgr: Greg Lish Address: 22118 20th Ave SE, Suite G202, Bothell, WA 98021 Phone: (425) 402-8800 Email: glish@slrconsulting.com Project Name: Woodinville West Business Park Project #: 101.20841-00001 Lab #: A2J0415 coc 1 of 1																	
Sampled by: Emily Hernandez				ANALYSIS REQUEST				PO #																	
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-CX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List 8260	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, SP, AS, Ba, Be, Cd, Cr, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Vinyl chloride	8260 SIM	Hold Sample	Frozen Archive	
MW-1-1022	10/12/22	1154	water	5							X											X			
MW-2-1022	10/12/22	1242									X											X			
MW-3-1022	10/12/22	1333									X											X			
MW-11-1022	10/12/22	1207									X											X			
SPECIAL INSTRUCTIONS:																									
Standard Turn Around Time (TAT) = 10 Business Days																									
TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other:																									
SAMPLES ARE HELD FOR 30 DAYS																									
RELINQUISHED BY: Signature: [Signature] Date: 10/12/22 Printed Name: Emily Hernandez Time: 1515 Company: SLR												RECEIVED BY: Signature: [Signature] Date: 10/13/22 Printed Name: Greg Lish Time: 11:08 Company: Apex													

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Greg Lish

Report ID:

A2J0415 - 10 27 22 1207

## APEX LABS COOLER RECEIPT FORM

Client: SLR Element WO#: A2J0415

Project/Project #: Woodinville West Business Park / 101.20841.00001

## Delivery Info:

Date/time received: 10/13/22 @ 1108 By: DJS

Delivered by: Apex Client ESS FedEx X UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/13/22 @ 1109 By: DJS

Chain of Custody included? Yes X No Custody seals? Yes No X

Signed/dated by client? Yes X No

Signed/dated by Apex? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.4						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 10-13-22 @ 1318 By: DJS

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No X NA

Comments:

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X

Comments:

Additional information: 2790 7646 2470

Labeled by:

DJS

Witness:

KAM

Cooler Inspected by:

DJS

Form Y-003 R-00

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Wednesday, February 1, 2023

Mike Staton  
SLR Corporation-Bothell  
22118 20th Ave SE, Suite G202  
Bothell, WA 98021

RE: A3A0313 - Woodinville West - 101.20841.00001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3A0313, which was received by the laboratory on 1/10/2023 at 10:30:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler      1.4 degC

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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A3A0313 - 02 01 23 1322**

### ANALYTICAL REPORT FOR SAMPLES

#### SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-0123	A3A0313-01	Water	01/09/23 11:46	01/10/23 10:30
MW-2-0123	A3A0313-02	Water	01/09/23 14:19	01/10/23 10:30
MW-3-0123	A3A0313-03	Water	01/09/23 15:56	01/10/23 10:30
MW-4-0123	A3A0313-04	Water	01/09/23 12:36	01/10/23 10:30
MW-8-0123	A3A0313-05	Water	01/09/23 15:19	01/10/23 10:30
MW-9-0123	A3A0313-06	Water	01/09/23 13:27	01/10/23 10:30

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0123 (A3A0313-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Acetone	ND	10.0	20.0	ug/L	1	01/10/23 20:58	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/10/23 20:58	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/10/23 20:58	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/10/23 20:58	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/10/23 20:58	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/10/23 20:58	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001  
Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1-0123 (A3A0313-01)		Matrix: Water			Batch: 23A0283			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/10/23 20:58	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/10/23 20:58	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/10/23 20:58	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	01/10/23 20:58	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/10/23 20:58	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
Vinyl chloride	0.380	0.200	0.400	ug/L	1	01/10/23 20:58	EPA 8260D	J
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/10/23 20:58	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/10/23 20:58	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0123 (A3A0313-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 103 %	Limits: 80-120 %	1	01/10/23 20:58	EPA 8260D		
Toluene-d8 (Surr)		104 %	80-120 %	1	01/10/23 20:58	EPA 8260D		
4-Bromofluorobenzene (Surr)		101 %	80-120 %	1	01/10/23 20:58	EPA 8260D		
<b>MW-2-0123 (A3A0313-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Acetone	ND	10.0	20.0	ug/L	1	01/10/23 21:25	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/10/23 21:25	EPA 8260D	
<b>Benzene</b>	<b>0.150</b>	0.100	0.200	ug/L	1	01/10/23 21:25	EPA 8260D	<b>J</b>
Bromobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/10/23 21:25	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/10/23 21:25	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/10/23 21:25	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/10/23 21:25	EPA 8260D	
<b>2-Chlorotoluene</b>	<b>1.70</b>	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0123 (A3A0313-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>0.460</b>	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/10/23 21:25	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/10/23 21:25	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/10/23 21:25	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	01/10/23 21:25	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/10/23 21:25	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/10/23 21:25	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001  
Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0123 (A3A0313-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/10/23 21:25	EPA 8260D	
<b>o-Xylene</b>	<b>0.510</b>	0.250	0.500	ug/L	1	01/10/23 21:25	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/10/23 21:25</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/10/23 21:25</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/10/23 21:25</i>	<i>EPA 8260D</i>	
<b>MW-3-0123 (A3A0313-03RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
Acetone	ND	10.0	20.0	ug/L	1	01/11/23 17:15	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/11/23 17:15	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/11/23 17:15	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/11/23 17:15	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/11/23 17:15	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/11/23 17:15	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-0123 (A3A0313-03RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	01/11/23 17:15	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/11/23 17:15	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/11/23 17:15	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	01/11/23 17:15	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/11/23 17:15	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/11/23 17:15	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-3-0123 (A3A0313-03RE1)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/11/23 17:15	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/11/23 17:15	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	105 %	Limits:	80-120 %	1	01/11/23 17:15	EPA 8260D
Toluene-d8 (Surr)			103 %		80-120 %	1	01/11/23 17:15	EPA 8260D
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	01/11/23 17:15	EPA 8260D
<b>MW-4-0123 (A3A0313-04)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Acetone	ND	20.0	20.0	ug/L	1	01/10/23 21:53	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/10/23 21:53	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/10/23 21:53	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/10/23 21:53	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/10/23 21:53	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/10/23 21:53	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-4-0123 (A3A0313-04)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Dibromomethane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
<b>cis-1,2-Dichloroethene</b>	<b>0.950</b>	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/10/23 21:53	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/10/23 21:53	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/10/23 21:53	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	01/10/23 21:53	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/10/23 21:53	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 21:53	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-4-0123 (A3A0313-04)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
<b>Vinyl chloride</b>	<b>9.83</b>	0.200	0.400	ug/L	1	01/10/23 21:53	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/10/23 21:53	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/10/23 21:53	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/10/23 21:53</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/10/23 21:53</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>101 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/10/23 21:53</i>	<i>EPA 8260D</i>	
<b>MW-8-0123 (A3A0313-05)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
<b>Acetone</b>	<b>55.4</b>	10.0	20.0	ug/L	1	01/10/23 22:21	EPA 8260D	<b>ICV-01</b>
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/10/23 22:21	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/10/23 22:21	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/10/23 22:21	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/10/23 22:21	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/10/23 22:21	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-8-0123 (A3A0313-05)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/10/23 22:21	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/10/23 22:21	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/10/23 22:21	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	01/10/23 22:21	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/10/23 22:21	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-8-0123 (A3A0313-05)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
<b>Vinyl chloride</b>	<b>1.01</b>	0.200	0.400	ug/L	1	01/10/23 22:21	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/10/23 22:21	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/10/23 22:21	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>01/10/23 22:21</i>	<i>EPA 8260D</i>	
<i>Toluene-d8 (Surr)</i>		<i>103 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/10/23 22:21</i>	<i>EPA 8260D</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/10/23 22:21</i>	<i>EPA 8260D</i>	
<b>MW-9-0123 (A3A0313-06)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Acetone	ND	10.0	20.0	ug/L	1	01/10/23 22:48	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/10/23 22:48	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/10/23 22:48	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/10/23 22:48	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/10/23 22:48	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-9-0123 (A3A0313-06)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
Chloroethane	ND	5.00	5.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/10/23 22:48	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
cis-1,2-Dichloroethene	0.240	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	J
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/10/23 22:48	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/10/23 22:48	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/10/23 22:48	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	01/10/23 22:48	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/10/23 22:48	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-9-0123 (A3A0313-06)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0283</b>			
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
<b>Vinyl chloride</b>	<b>1.61</b>	0.200	0.400	ug/L	1	01/10/23 22:48	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/10/23 22:48	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/10/23 22:48	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %	1	01/10/23 22:48	EPA 8260D	
Toluene-d8 (Surr)		103 %		80-120 %	1	01/10/23 22:48	EPA 8260D	
4-Bromofluorobenzene (Surr)		100 %		80-120 %	1	01/10/23 22:48	EPA 8260D	

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## ANALYTICAL SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-2-0123 (A3A0313-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0286</b>			
Vinyl chloride	0.104	0.0100	0.0200	ug/L	1	01/18/23 18:51	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %	Limits: 80-120 %	1	01/18/23 18:51	EPA 8260D SIM		
Toluene-d8 (Surr)		101 %	80-120 %	1	01/18/23 18:51	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	01/18/23 18:51	EPA 8260D SIM		
<b>MW-3-0123 (A3A0313-03)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0286</b>			
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	01/18/23 19:45	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 100 %	Limits: 80-120 %	1	01/18/23 19:45	EPA 8260D SIM		
Toluene-d8 (Surr)		100 %	80-120 %	1	01/18/23 19:45	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)		100 %	80-120 %	1	01/18/23 19:45	EPA 8260D SIM		

Apex Laboratories

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 200.8 (ICPMS)**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0123 (A3A0313-01)</b>		<b>Matrix: Water</b>						
Batch: 23A0525								
<b>Iron</b>	<b>9040</b>	---	50.0	ug/L	1	01/18/23 18:48	EPA 200.8	
<b>MW-2-0123 (A3A0313-02)</b>		<b>Matrix: Water</b>						
Batch: 23A0525								
<b>Iron</b>	<b>3240</b>	---	50.0	ug/L	1	01/18/23 19:20	EPA 200.8	
<b>MW-4-0123 (A3A0313-04)</b>		<b>Matrix: Water</b>						
Batch: 23A0525								
<b>Iron</b>	<b>8870</b>	---	50.0	ug/L	1	01/18/23 19:33	EPA 200.8	
<b>MW-9-0123 (A3A0313-06)</b>		<b>Matrix: Water</b>						
Batch: 23A0525								
<b>Iron</b>	<b>6740</b>	---	50.0	ug/L	1	01/18/23 19:39	EPA 200.8	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## ANALYTICAL SAMPLE RESULTS

## Anions by Ion Chromatography

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-1-0123 (A3A0313-01)</b>		<b>Matrix: Water</b>						
Batch: 23A0296								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	01/10/23 16:16	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	01/10/23 16:16	EPA 300.0	
<b>MW-2-0123 (A3A0313-02)</b>		<b>Matrix: Water</b>						
Batch: 23A0296								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	01/10/23 16:37	EPA 300.0	
Sulfate	<b>18.4</b>	---	1.00	mg/L	1	01/10/23 16:37	EPA 300.0	
<b>MW-4-0123 (A3A0313-04)</b>		<b>Matrix: Water</b>						
Batch: 23A0296								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	01/10/23 17:42	EPA 300.0	
Sulfate	ND	---	1.00	mg/L	1	01/10/23 17:42	EPA 300.0	
<b>MW-9-0123 (A3A0313-06)</b>		<b>Matrix: Water</b>						
Batch: 23A0296								
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	01/10/23 18:03	EPA 300.0	
Sulfate	<b>4.16</b>	---	1.00	mg/L	1	01/10/23 18:03	EPA 300.0	

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Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

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503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
Blank (23A0283-BLK1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 14:03							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
Blank (23A0283-BLK1)						Prepared: 01/10/23 10:27 Analyzed: 01/10/23 14:03						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
Blank (23A0283-BLK1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 14:03							
Surr: Toluene-d8 (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		103 %		80-120 %		"						
LCS (23A0283-BS1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 12:30							
EPA 8260D												
Acetone	42.4	10.0	20.0	ug/L	1	40.0	---	106	80-120%	---	---	ICV-01
Acrylonitrile	21.7	1.00	2.00	ug/L	1	20.0	---	109	80-120%	---	---	
Benzene	20.4	0.100	0.200	ug/L	1	20.0	---	102	80-120%	---	---	
Bromobenzene	17.6	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
Bromochloromethane	25.3	0.500	1.00	ug/L	1	20.0	---	127	80-120%	---	---	Q-56
Bromodichloromethane	22.6	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Bromoform	17.7	0.500	1.00	ug/L	1	20.0	---	89	80-120%	---	---	
Bromomethane	31.2	5.00	5.00	ug/L	1	20.0	---	156	80-120%	---	---	Q-56
2-Butanone (MEK)	44.1	5.00	10.0	ug/L	1	40.0	---	110	80-120%	---	---	ICV-01
n-Butylbenzene	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
sec-Butylbenzene	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
tert-Butylbenzene	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Carbon disulfide	22.1	5.00	10.0	ug/L	1	20.0	---	111	80-120%	---	---	
Carbon tetrachloride	21.9	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Chlorobenzene	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Chloroethane	23.4	5.00	5.00	ug/L	1	20.0	---	117	80-120%	---	---	ICV-01
Chloroform	21.4	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
Chloromethane	22.9	2.50	5.00	ug/L	1	20.0	---	115	80-120%	---	---	
2-Chlorotoluene	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
4-Chlorotoluene	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Dibromochloromethane	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
1,2-Dibromo-3-chloropropane	16.2	2.50	5.00	ug/L	1	20.0	---	81	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.5	0.250	0.500	ug/L	1	20.0	---	98	80-120%	---	---	
Dibromomethane	21.3	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
1,3-Dichlorobenzene	18.9	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
1,4-Dichlorobenzene	18.9	0.250	0.500	ug/L	1	20.0	---	95	80-120%	---	---	
Dichlorodifluoromethane	21.5	0.500	1.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,1-Dichloroethane	22.3	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	

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Philip Nerenberg, Lab Director



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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
LCS (23A0283-BS1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 12:30							
1,2-Dichloroethane (EDC)	22.2	0.200	0.400	ug/L	1	20.0	---	111	80-120%	---	---	
1,1-Dichloroethene	22.8	0.200	0.400	ug/L	1	20.0	---	114	80-120%	---	---	
cis-1,2-Dichloroethene	20.9	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
trans-1,2-Dichloroethene	21.1	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dichloropropane	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
1,3-Dichloropropane	20.9	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
2,2-Dichloropropane	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,1-Dichloropropene	20.7	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
cis-1,3-Dichloropropene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
trans-1,3-Dichloropropene	22.2	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Ethylbenzene	20.9	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Hexachlorobutadiene	17.0	2.50	5.00	ug/L	1	20.0	---	85	80-120%	---	---	
2-Hexanone	41.9	5.00	10.0	ug/L	1	40.0	---	105	80-120%	---	---	
Isopropylbenzene	19.8	0.500	1.00	ug/L	1	20.0	---	99	80-120%	---	---	
4-Isopropyltoluene	19.9	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Methylene chloride	21.1	5.00	10.0	ug/L	1	20.0	---	105	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	44.2	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	17.3	0.500	1.00	ug/L	1	20.0	---	86	80-120%	---	---	
Naphthalene	12.7	2.00	2.00	ug/L	1	20.0	---	63	80-120%	---	---	Q-55
n-Propylbenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
Styrene	20.6	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.3	0.200	0.400	ug/L	1	20.0	---	102	80-120%	---	---	
1,1,2,2-Tetrachloroethane	22.1	0.250	0.500	ug/L	1	20.0	---	111	80-120%	---	---	
Tetrachloroethene (PCE)	18.0	0.200	0.400	ug/L	1	20.0	---	90	80-120%	---	---	
Toluene	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,2,3-Trichlorobenzene	13.6	2.00	2.00	ug/L	1	20.0	---	68	80-120%	---	---	Q-55
1,2,4-Trichlorobenzene	13.3	2.00	2.00	ug/L	1	20.0	---	66	80-120%	---	---	Q-55
1,1,1-Trichloroethane	20.8	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	
1,1,2-Trichloroethane	20.1	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Trichloroethene (TCE)	17.8	0.200	0.400	ug/L	1	20.0	---	89	80-120%	---	---	
Trichlorofluoromethane	26.7	1.00	2.00	ug/L	1	20.0	---	133	80-120%	---	---	Q-56
1,2,3-Trichloropropane	20.3	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
1,2,4-Trimethylbenzene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
LCS (23A0283-BS1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 12:30							
Vinyl chloride	23.3	0.200	0.400	ug/L	1	20.0	---	116	80-120%	---	---	
m,p-Xylene	42.0	0.500	1.00	ug/L	1	40.0	---	105	80-120%	---	---	
o-Xylene	18.8	0.250	0.500	ug/L	1	20.0	---	94	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		87 %		80-120 %		"						

## Duplicate (23A0283-DUP1)

Prepared: 01/10/23 10:27 Analyzed: 01/10/23 14:58

## QC Source Sample: Non-SDG (A3A0315-01)

Acetone	ND	10.0	20.0	ug/L	1	---	ND	---	---	---	30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
n-Butylbenzene	0.610	0.500	1.00	ug/L	1	---	0.650	---	---	6	30%	J
sec-Butylbenzene	0.530	0.500	1.00	ug/L	1	---	0.560	---	---	6	30%	J
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
Duplicate (23A0283-DUP1)			Prepared: 01/10/23 10:27   Analyzed: 01/10/23 14:58									
QC Source Sample: Non-SDG (A3A0315-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	0.830	0.500	1.00	ug/L	1	---	1.11	---	---	29	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	0.270	0.250	0.500	ug/L	1	---	0.290	---	---	7	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C							Water					
Duplicate (23A0283-DUP1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 14:58							
QC Source Sample: Non-SDG (A3A0315-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	0.470	0.250	0.500	ug/L	1	---	0.510	---	---	8	30%	J
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		102 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		89 %		80-120 %		"						

## Matrix Spike (23A0283-MS1)

Prepared: 01/10/23 10:27 Analyzed: 01/10/23 15:54

QC Source Sample: Non-SDG (A3A0290-01)

## EPA 8260D

Acetone	440	100	200	ug/L	10	400	ND	110	39-160%	---	---	ICV-01
Acrylonitrile	218	10.0	20.0	ug/L	10	200	ND	109	63-135%	---	---	
Benzene	203	1.00	2.00	ug/L	10	200	ND	101	79-120%	---	---	
Bromobenzene	171	2.50	5.00	ug/L	10	200	ND	86	80-120%	---	---	
Bromochloromethane	246	5.00	10.0	ug/L	10	200	ND	123	78-123%	---	---	Q-54d
Bromodichloromethane	219	5.00	10.0	ug/L	10	200	ND	110	79-125%	---	---	
Bromoform	170	5.00	10.0	ug/L	10	200	ND	85	66-130%	---	---	
Bromomethane	297	50.0	50.0	ug/L	10	200	ND	148	53-141%	---	---	Q-54a
2-Butanone (MEK)	444	50.0	100	ug/L	10	400	ND	111	56-143%	---	---	ICV-01
n-Butylbenzene	194	5.00	10.0	ug/L	10	200	ND	97	75-128%	---	---	
sec-Butylbenzene	195	5.00	10.0	ug/L	10	200	ND	98	77-126%	---	---	
tert-Butylbenzene	180	5.00	10.0	ug/L	10	200	ND	90	78-124%	---	---	
Carbon disulfide	206	50.0	100	ug/L	10	200	ND	103	64-133%	---	---	
Carbon tetrachloride	207	5.00	10.0	ug/L	10	200	ND	103	72-136%	---	---	
Chlorobenzene	195	2.50	5.00	ug/L	10	200	ND	97	80-120%	---	---	
Chloroethane	214	50.0	50.0	ug/L	10	200	ND	107	60-138%	---	---	ICV-01
Chloroform	208	5.00	10.0	ug/L	10	200	ND	104	79-124%	---	---	
Chloromethane	243	25.0	50.0	ug/L	10	200	ND	122	50-139%	---	---	

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Philip Nerenberg, Lab Director



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Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
Matrix Spike (23A0283-MS1)			Prepared: 01/10/23 10:27		Analyzed: 01/10/23 15:54							
QC Source Sample: Non-SDG (A3A0290-01)												
2-Chlorotoluene	176	5.00	10.0	ug/L	10	200	ND	88	79-122%	---	---	
4-Chlorotoluene	191	5.00	10.0	ug/L	10	200	ND	95	78-122%	---	---	
Dibromochloromethane	216	5.00	10.0	ug/L	10	200	ND	108	74-126%	---	---	
1,2-Dibromo-3-chloropropane	155	25.0	50.0	ug/L	10	200	ND	78	62-128%	---	---	
1,2-Dibromoethane (EDB)	188	2.50	5.00	ug/L	10	200	ND	94	77-121%	---	---	
Dibromomethane	207	5.00	10.0	ug/L	10	200	ND	104	79-123%	---	---	
1,2-Dichlorobenzene	179	2.50	5.00	ug/L	10	200	ND	90	80-120%	---	---	
1,3-Dichlorobenzene	181	2.50	5.00	ug/L	10	200	ND	90	80-120%	---	---	
1,4-Dichlorobenzene	182	2.50	5.00	ug/L	10	200	ND	91	79-120%	---	---	
Dichlorodifluoromethane	203	5.00	10.0	ug/L	10	200	ND	101	32-152%	---	---	
1,1-Dichloroethane	220	2.00	4.00	ug/L	10	200	ND	110	77-125%	---	---	
1,2-Dichloroethane (EDC)	217	2.00	4.00	ug/L	10	200	ND	109	73-128%	---	---	
1,1-Dichloroethene	222	2.00	4.00	ug/L	10	200	ND	111	71-131%	---	---	
cis-1,2-Dichloroethene	210	2.00	4.00	ug/L	10	200	ND	105	78-123%	---	---	
trans-1,2-Dichloroethene	210	2.00	4.00	ug/L	10	200	ND	105	75-124%	---	---	
1,2-Dichloropropane	213	2.50	5.00	ug/L	10	200	ND	106	78-122%	---	---	
1,3-Dichloropropane	204	5.00	10.0	ug/L	10	200	ND	102	80-120%	---	---	
2,2-Dichloropropane	194	5.00	10.0	ug/L	10	200	ND	97	60-139%	---	---	
1,1-Dichloropropene	200	5.00	10.0	ug/L	10	200	ND	100	79-125%	---	---	
cis-1,3-Dichloropropene	182	5.00	10.0	ug/L	10	200	ND	91	75-124%	---	---	
trans-1,3-Dichloropropene	213	5.00	10.0	ug/L	10	200	ND	106	73-127%	---	---	
Ethylbenzene	198	2.50	5.00	ug/L	10	200	ND	99	79-121%	---	---	
Hexachlorobutadiene	168	25.0	50.0	ug/L	10	200	ND	84	66-134%	---	---	
2-Hexanone	425	50.0	100	ug/L	10	400	ND	106	57-139%	---	---	
Isopropylbenzene	186	5.00	10.0	ug/L	10	200	ND	93	72-131%	---	---	
4-Isopropyltoluene	189	5.00	10.0	ug/L	10	200	ND	95	77-127%	---	---	
Methylene chloride	207	50.0	100	ug/L	10	200	ND	104	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	444	50.0	100	ug/L	10	400	ND	111	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	174	5.00	10.0	ug/L	10	200	ND	87	71-124%	---	---	
Naphthalene	133	20.0	20.0	ug/L	10	200	ND	67	61-128%	---	---	Q-54h
n-Propylbenzene	193	2.50	5.00	ug/L	10	200	ND	97	76-126%	---	---	
Styrene	197	5.00	10.0	ug/L	10	200	ND	99	78-123%	---	---	
1,1,1,2-Tetrachloroethane	194	2.00	4.00	ug/L	10	200	ND	97	78-124%	---	---	

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Philip Nerenberg, Lab Director



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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0283 - EPA 5030C						Water						
Matrix Spike (23A0283-MS1)			Prepared: 01/10/23 10:27   Analyzed: 01/10/23 15:54									
QC Source Sample: Non-SDG (A3A0290-01)												
1,1,2,2-Tetrachloroethane	216	2.50	5.00	ug/L	10	200	ND	108	71-121%	---	---	
Tetrachloroethene (PCE)	171	2.00	4.00	ug/L	10	200	ND	85	74-129%	---	---	
Toluene	185	5.00	10.0	ug/L	10	200	ND	93	80-121%	---	---	
1,2,3-Trichlorobenzene	134	20.0	20.0	ug/L	10	200	ND	67	69-129%	---	---	Q-54f
1,2,4-Trichlorobenzene	132	20.0	20.0	ug/L	10	200	ND	66	69-130%	---	---	Q-54g
1,1,1-Trichloroethane	200	2.00	4.00	ug/L	10	200	ND	100	74-131%	---	---	
1,1,2-Trichloroethane	196	2.50	5.00	ug/L	10	200	ND	98	80-120%	---	---	
Trichloroethene (TCE)	173	2.00	4.00	ug/L	10	200	ND	87	79-123%	---	---	
Trichlorofluoromethane	256	10.0	20.0	ug/L	10	200	ND	128	65-141%	---	---	Q-54
1,2,3-Trichloropropane	198	5.00	10.0	ug/L	10	200	ND	99	73-122%	---	---	
1,2,4-Trimethylbenzene	197	5.00	10.0	ug/L	10	200	ND	99	76-124%	---	---	
1,3,5-Trimethylbenzene	199	5.00	10.0	ug/L	10	200	ND	100	75-124%	---	---	
Vinyl chloride	232	2.00	4.00	ug/L	10	200	ND	116	58-137%	---	---	
m,p-Xylene	399	5.00	10.0	ug/L	10	400	ND	100	80-121%	---	---	
o-Xylene	181	2.50	5.00	ug/L	10	200	ND	91	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 99 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		88 %		80-120 %		"						

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Blank (23A0349-BLK1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 14:57							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 23A0349 - EPA 5030C</b>						<b>Water</b>						
<b>Blank (23A0349-BLK1)</b>						Prepared: 01/11/23 08:30 Analyzed: 01/11/23 14:57						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville WestProject Number: 101.20841.00001  
Project Manager: Mike StatonReport ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Blank (23A0349-BLK1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 14:57							
Surr: Toluene-d8 (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23A0349-BS1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 13:26							
EPA 8260D												
Acetone	42.0	10.0	20.0	ug/L	1	40.0	---	105	80-120%	---	---	ICV-01
Acrylonitrile	21.9	1.00	2.00	ug/L	1	20.0	---	109	80-120%	---	---	
Benzene	19.7	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
Bromobenzene	16.5	0.250	0.500	ug/L	1	20.0	---	83	80-120%	---	---	
Bromochloromethane	25.1	0.500	1.00	ug/L	1	20.0	---	126	80-120%	---	---	Q-56
Bromodichloromethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromoform	16.6	0.500	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
Bromomethane	32.7	5.00	5.00	ug/L	1	20.0	---	163	80-120%	---	---	Q-56
2-Butanone (MEK)	44.3	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	ICV-01
n-Butylbenzene	18.0	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
sec-Butylbenzene	18.3	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
tert-Butylbenzene	16.8	0.500	1.00	ug/L	1	20.0	---	84	80-120%	---	---	
Carbon disulfide	19.4	5.00	10.0	ug/L	1	20.0	---	97	80-120%	---	---	
Carbon tetrachloride	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Chlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroethane	23.4	5.00	5.00	ug/L	1	20.0	---	117	80-120%	---	---	ICV-01
Chloroform	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	22.2	2.50	5.00	ug/L	1	20.0	---	111	80-120%	---	---	
2-Chlorotoluene	16.6	0.500	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
4-Chlorotoluene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Dibromochloromethane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	14.8	5.00	5.00	ug/L	1	20.0	---	74	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Dibromomethane	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,2-Dichlorobenzene	17.3	0.250	0.500	ug/L	1	20.0	---	86	80-120%	---	---	
1,3-Dichlorobenzene	17.6	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
1,4-Dichlorobenzene	17.6	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
Dichlorodifluoromethane	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,1-Dichloroethane	21.5	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	

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Philip Nerenberg, Lab Director

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503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
LCS (23A0349-BS1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 13:26							
1,2-Dichloroethane (EDC)	21.9	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,2-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
trans-1,2-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,3-Dichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
cis-1,3-Dichloropropene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
trans-1,3-Dichloropropene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Ethylbenzene	19.1	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Hexachlorobutadiene	14.4	5.00	5.00	ug/L	1	20.0	---	72	80-120%	---	---	Q-55
2-Hexanone	41.1	5.00	10.0	ug/L	1	40.0	---	103	80-120%	---	---	
Isopropylbenzene	17.2	0.500	1.00	ug/L	1	20.0	---	86	80-120%	---	---	
4-Isopropyltoluene	17.5	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
Methylene chloride	20.6	5.00	10.0	ug/L	1	20.0	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	43.3	5.00	10.0	ug/L	1	40.0	---	108	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	16.4	0.500	1.00	ug/L	1	20.0	---	82	80-120%	---	---	
Naphthalene	11.5	2.00	2.00	ug/L	1	20.0	---	58	80-120%	---	---	Q-55
n-Propylbenzene	18.5	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Styrene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Tetrachloroethene (PCE)	15.8	0.400	0.400	ug/L	1	20.0	---	79	80-120%	---	---	Q-55
Toluene	17.9	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,3-Trichlorobenzene	12.4	2.00	2.00	ug/L	1	20.0	---	62	80-120%	---	---	Q-55
1,2,4-Trichlorobenzene	11.9	2.00	2.00	ug/L	1	20.0	---	60	80-120%	---	---	Q-55
1,1,1-Trichloroethane	18.9	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,2-Trichloroethane	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Trichloroethene (TCE)	16.8	0.200	0.400	ug/L	1	20.0	---	84	80-120%	---	---	
Trichlorofluoromethane	24.1	1.00	2.00	ug/L	1	20.0	---	120	80-120%	---	---	
1,2,3-Trichloropropane	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,3,5-Trimethylbenzene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 23A0349 - EPA 5030C</b>						<b>Water</b>						
<b>LCS (23A0349-BS1)</b>			Prepared: 01/11/23 08:30			Analyzed: 01/11/23 13:26						
Vinyl chloride	21.3	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
m,p-Xylene	38.6	0.500	1.00	ug/L	1	40.0	---	96	80-120%	---	---	
o-Xylene	17.1	0.250	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		85 %		80-120 %		"						

**Duplicate (23A0349-DUP1)**

Prepared: 01/11/23 13:31 Analyzed: 01/11/23 20:28

**QC Source Sample: Non-SDG (A3A0367-01)**

Acetone	ND	20.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Duplicate (23A0349-DUP1)			Prepared: 01/11/23 13:31		Analyzed: 01/11/23 20:28							
QC Source Sample: Non-SDG (A3A0367-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



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22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Duplicate (23A0349-DUP1)			Prepared: 01/11/23 13:31		Analyzed: 01/11/23 20:28							
QC Source Sample: Non-SDG (A3A0367-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		105 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
Matrix Spike (23A0349-MS1)						Prepared: 01/11/23 13:31 Analyzed: 01/12/23 00:09						
QC Source Sample: Non-SDG (A3A0355-03)												
EPA 8260D												
Acetone	235	50.0	100	ug/L	5	200	ND	118	39-160%	---	---	ICV-01
Acrylonitrile	111	5.00	10.0	ug/L	5	100	ND	111	63-135%	---	---	
Benzene	103	0.500	1.00	ug/L	5	100	ND	103	79-120%	---	---	
Bromobenzene	83.2	1.25	2.50	ug/L	5	100	ND	83	80-120%	---	---	
Bromochloromethane	128	2.50	5.00	ug/L	5	100	ND	128	78-123%	---	---	Q-54c
Bromodichloromethane	113	2.50	5.00	ug/L	5	100	ND	113	79-125%	---	---	
Bromoform	83.6	2.50	5.00	ug/L	5	100	ND	84	66-130%	---	---	
Bromomethane	180	25.0	25.0	ug/L	5	100	ND	180	53-141%	---	---	Q-54b
2-Butanone (MEK)	230	25.0	50.0	ug/L	5	200	ND	115	56-143%	---	---	ICV-01
n-Butylbenzene	93.8	2.50	5.00	ug/L	5	100	ND	94	75-128%	---	---	
sec-Butylbenzene	96.3	2.50	5.00	ug/L	5	100	ND	96	77-126%	---	---	
tert-Butylbenzene	87.2	2.50	5.00	ug/L	5	100	ND	87	78-124%	---	---	
Carbon disulfide	105	25.0	50.0	ug/L	5	100	ND	105	64-133%	---	---	
Carbon tetrachloride	104	2.50	5.00	ug/L	5	100	ND	104	72-136%	---	---	
Chlorobenzene	98.6	1.25	2.50	ug/L	5	100	ND	99	80-120%	---	---	
Chloroethane	128	25.0	25.0	ug/L	5	100	ND	128	60-138%	---	---	ICV-01
Chloroform	107	2.50	5.00	ug/L	5	100	ND	107	79-124%	---	---	
Chloromethane	118	12.5	25.0	ug/L	5	100	ND	118	50-139%	---	---	

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Philip Nerenberg, Lab Director



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503-718-2323

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SLR Corporation-Bothell

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Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Matrix Spike (23A0349-MS1)			Prepared: 01/11/23 13:31		Analyzed: 01/12/23 00:09							
QC Source Sample: Non-SDG (A3A0355-03)												
2-Chlorotoluene	84.4	2.50	5.00	ug/L	5	100	ND	84	79-122%	---	---	Q-54l
4-Chlorotoluene	93.0	2.50	5.00	ug/L	5	100	ND	93	78-122%	---	---	
Dibromochloromethane	106	2.50	5.00	ug/L	5	100	ND	106	74-126%	---	---	
1,2-Dibromo-3-chloropropane	76.6	25.0	25.0	ug/L	5	100	ND	77	62-128%	---	---	
1,2-Dibromoethane (EDB)	92.8	1.25	2.50	ug/L	5	100	ND	93	77-121%	---	---	
Dibromomethane	107	2.50	5.00	ug/L	5	100	ND	107	79-123%	---	---	
1,2-Dichlorobenzene	87.8	1.25	2.50	ug/L	5	100	ND	88	80-120%	---	---	
1,3-Dichlorobenzene	89.2	1.25	2.50	ug/L	5	100	ND	89	80-120%	---	---	
1,4-Dichlorobenzene	88.5	1.25	2.50	ug/L	5	100	ND	88	79-120%	---	---	
Dichlorodifluoromethane	104	2.50	5.00	ug/L	5	100	ND	104	32-152%	---	---	
1,1-Dichloroethane	113	1.00	2.00	ug/L	5	100	ND	113	77-125%	---	---	Q-54m
1,2-Dichloroethane (EDC)	112	1.00	2.00	ug/L	5	100	ND	112	73-128%	---	---	
1,1-Dichloroethene	112	1.00	2.00	ug/L	5	100	ND	112	71-131%	---	---	
cis-1,2-Dichloroethene	177	1.00	2.00	ug/L	5	100	68.2	109	78-123%	---	---	
trans-1,2-Dichloroethene	103	1.00	2.00	ug/L	5	100	ND	103	75-124%	---	---	
1,2-Dichloropropane	108	1.25	2.50	ug/L	5	100	ND	108	78-122%	---	---	
1,3-Dichloropropane	100	2.50	5.00	ug/L	5	100	ND	100	80-120%	---	---	
2,2-Dichloropropane	83.7	2.50	5.00	ug/L	5	100	ND	84	60-139%	---	---	
1,1-Dichloropropene	100	2.50	5.00	ug/L	5	100	ND	100	79-125%	---	---	
cis-1,3-Dichloropropene	81.0	2.50	5.00	ug/L	5	100	ND	81	75-124%	---	---	
trans-1,3-Dichloropropene	103	2.50	5.00	ug/L	5	100	ND	103	73-127%	---	---	
Ethylbenzene	100	1.25	2.50	ug/L	5	100	ND	100	79-121%	---	---	Q-54k
Hexachlorobutadiene	77.6	25.0	25.0	ug/L	5	100	ND	78	66-134%	---	---	
2-Hexanone	214	25.0	50.0	ug/L	5	200	ND	107	57-139%	---	---	
Isopropylbenzene	90.4	2.50	5.00	ug/L	5	100	ND	90	72-131%	---	---	
4-Isopropyltoluene	91.0	2.50	5.00	ug/L	5	100	ND	91	77-127%	---	---	
Methylene chloride	107	25.0	50.0	ug/L	5	100	ND	107	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	219	25.0	50.0	ug/L	5	200	ND	109	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	83.4	2.50	5.00	ug/L	5	100	ND	83	71-124%	---	---	
Naphthalene	57.5	10.0	10.0	ug/L	5	100	ND	58	61-128%	---	---	
n-Propylbenzene	95.6	1.25	2.50	ug/L	5	100	ND	96	76-126%	---	---	
Styrene	98.6	2.50	5.00	ug/L	5	100	ND	99	78-123%	---	---	
1,1,1,2-Tetrachloroethane	96.0	1.00	2.00	ug/L	5	100	ND	96	78-124%	---	---	

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Philip Nerenberg, Lab Director



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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Matrix Spike (23A0349-MS1)				Prepared: 01/11/23 13:31		Analyzed: 01/12/23 00:09						
QC Source Sample: Non-SDG (A3A0355-03)												
1,1,2,2-Tetrachloroethane	105	1.25	2.50	ug/L	5	100	ND	105	71-121%	---	---	
Tetrachloroethene (PCE)	84.9	2.00	2.00	ug/L	5	100	2.70	82	74-129%	---	---	Q-54e
Toluene	92.1	2.50	5.00	ug/L	5	100	ND	92	80-121%	---	---	
1,2,3-Trichlorobenzene	61.4	10.0	10.0	ug/L	5	100	ND	61	69-129%	---	---	Q-54i
1,2,4-Trichlorobenzene	59.2	10.0	10.0	ug/L	5	100	ND	59	69-130%	---	---	Q-54j
1,1,1-Trichloroethane	101	1.00	2.00	ug/L	5	100	ND	101	74-131%	---	---	
1,1,2-Trichloroethane	97.4	1.25	2.50	ug/L	5	100	ND	97	80-120%	---	---	
Trichloroethene (TCE)	329	1.00	2.00	ug/L	5	100	262	66	79-123%	---	---	Q-01
Trichlorofluoromethane	139	5.00	10.0	ug/L	5	100	ND	139	65-141%	---	---	
1,2,3-Trichloropropane	97.4	2.50	5.00	ug/L	5	100	ND	97	73-122%	---	---	
1,2,4-Trimethylbenzene	97.3	2.50	5.00	ug/L	5	100	ND	97	76-124%	---	---	
1,3,5-Trimethylbenzene	97.6	2.50	5.00	ug/L	5	100	ND	98	75-124%	---	---	
Vinyl chloride	119	1.00	2.00	ug/L	5	100	ND	119	58-137%	---	---	
m,p-Xylene	200	2.50	5.00	ug/L	5	200	ND	100	80-121%	---	---	
o-Xylene	88.0	1.25	2.50	ug/L	5	100	ND	88	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		84 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0286 - EPA 5030C						Water						
Blank (23A0286-BLK1)			Prepared: 01/18/23 15:00    Analyzed: 01/18/23 18:24									
EPA 8260D SIM												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (23A0286-BS1)			Prepared: 01/18/23 15:00    Analyzed: 01/18/23 17:31									
EPA 8260D SIM												
Vinyl chloride	0.198	0.0100	0.0200	ug/L	1	0.200	---	99	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						
Duplicate (23A0286-DUP1)			Prepared: 01/18/23 15:00    Analyzed: 01/18/23 19:18									
QC Source Sample: MW-2-0123 (A3A0313-02)												
EPA 8260D SIM												
Vinyl chloride	0.0815	0.0100	0.0200	ug/L	1	---	0.104	---	---	24	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (23A0286-MS1)			Prepared: 01/18/23 15:00    Analyzed: 01/18/23 21:33									
QC Source Sample: Non-SDG (A3A0367-02)												
EPA 8260D SIM												
Vinyl chloride	0.228	0.0100	0.0200	ug/L	1	0.200	ND	114	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0525 - EPA 3015A						Water						
Blank (23A0525-BLK1)			Prepared: 01/16/23 15:56   Analyzed: 01/18/23 18:36									
EPA 200.8												
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
LCS (23A0525-BS1)			Prepared: 01/16/23 15:56   Analyzed: 01/18/23 18:42									
EPA 200.8												
Iron	2920	---	50.0	ug/L	1	2780	---	105	85-115%	---	---	
Duplicate (23A0525-DUP1)			Prepared: 01/16/23 15:56   Analyzed: 01/18/23 19:08									
QC Source Sample: MW-1-0123 (A3A0313-01)												
EPA 200.8												
Iron	9220	---	50.0	ug/L	1	---	9040	---	---	2	20%	
Matrix Spike (23A0525-MS1)			Prepared: 01/16/23 15:56   Analyzed: 01/18/23 19:14									
QC Source Sample: MW-1-0123 (A3A0313-01)												
EPA 200.8												
Iron	11700	---	50.0	ug/L	1	2780	9040	95	70-130%	---	---	
Matrix Spike (23A0525-MS2)			Prepared: 01/16/23 15:56   Analyzed: 01/18/23 19:26									
QC Source Sample: MW-2-0123 (A3A0313-02)												
EPA 200.8												
Iron	6120	---	50.0	ug/L	1	2780	3240	104	70-130%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Anions by Ion Chromatography

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0296 - Method Prep: Aq						Water						
Blank (23A0296-BLK1)			Prepared: 01/10/23 13:05    Analyzed: 01/10/23 14:49									
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Sulfate	ND	---	1.00	mg/L	1	---	---	---	---	---	---	
LCS (23A0296-BS1)			Prepared: 01/10/23 13:05    Analyzed: 01/10/23 15:11									
EPA 300.0												
Nitrate-Nitrogen	2.01	---	0.250	mg/L	1	2.00	---	100	90-110%	---	---	
Sulfate	7.86	---	1.00	mg/L	1	8.00	---	98	90-110%	---	---	
Duplicate (23A0296-DUP1)			Prepared: 01/10/23 13:05    Analyzed: 01/10/23 16:59									
QC Source Sample: MW-2-0123 (A3A0313-02)												
EPA 300.0												
Nitrate-Nitrogen	ND	---	0.250	mg/L	1	---	ND	---	---	---	3%	
Sulfate	18.5	---	1.00	mg/L	1	---	18.4	---	---	0.3	4%	
Matrix Spike (23A0296-MS1)			Prepared: 01/10/23 13:05    Analyzed: 01/10/23 17:20									
QC Source Sample: MW-2-0123 (A3A0313-02)												
EPA 300.0												
Nitrate-Nitrogen	2.54	---	0.312	mg/L	1	2.50	ND	102	87-112%	---	---	
Sulfate	28.6	---	1.25	mg/L	1	10.0	18.4	102	88-115%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0313 - 02 01 23 1322**

## SAMPLE PREPARATION INFORMATION

## Volatile Organic Compounds by EPA 8260D

## Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23A0283							
A3A0313-01	Water	EPA 8260D	01/09/23 11:46	01/10/23 10:27	5mL/5mL	5mL/5mL	1.00
A3A0313-02	Water	EPA 8260D	01/09/23 14:19	01/10/23 10:27	5mL/5mL	5mL/5mL	1.00
A3A0313-04	Water	EPA 8260D	01/09/23 12:36	01/10/23 10:27	5mL/5mL	5mL/5mL	1.00
A3A0313-05	Water	EPA 8260D	01/09/23 15:19	01/10/23 10:27	5mL/5mL	5mL/5mL	1.00
A3A0313-06	Water	EPA 8260D	01/09/23 13:27	01/10/23 10:27	5mL/5mL	5mL/5mL	1.00
Batch: 23A0349							
A3A0313-03RE1	Water	EPA 8260D	01/09/23 15:56	01/11/23 13:31	5mL/5mL	5mL/5mL	1.00

## Vinyl Chloride by EPA 8260D SIM

## Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23A0286							
A3A0313-02	Water	EPA 8260D SIM	01/09/23 14:19	01/18/23 15:00	5mL/5mL	5mL/5mL	1.00
A3A0313-03	Water	EPA 8260D SIM	01/09/23 15:56	01/18/23 15:00	5mL/5mL	5mL/5mL	1.00

## Total Metals by EPA 200.8 (ICPMS)

## Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23A0525							
A3A0313-01	Water	EPA 200.8	01/09/23 11:46	01/16/23 15:56	45mL/50mL	45mL/50mL	1.00
A3A0313-02	Water	EPA 200.8	01/09/23 14:19	01/16/23 15:56	45mL/50mL	45mL/50mL	1.00
A3A0313-04	Water	EPA 200.8	01/09/23 12:36	01/16/23 15:56	45mL/50mL	45mL/50mL	1.00
A3A0313-06	Water	EPA 200.8	01/09/23 13:27	01/16/23 15:56	45mL/50mL	45mL/50mL	1.00

## Anions by Ion Chromatography

## Prep: Method Prep: Ag

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23A0296							
A3A0313-01	Water	EPA 300.0	01/09/23 11:46	01/10/23 13:05	5mL/5mL	5mL/5mL	1.00
A3A0313-02	Water	EPA 300.0	01/09/23 14:19	01/10/23 13:05	5mL/5mL	5mL/5mL	1.00
A3A0313-04	Water	EPA 300.0	01/09/23 12:36	01/10/23 13:05	5mL/5mL	5mL/5mL	1.00
A3A0313-06	Water	EPA 300.0	01/09/23 13:27	01/10/23 13:05	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Mike Staton**

**Report ID:**

**A3A0313 - 02 01 23 1322**

## QUALIFIER DEFINITIONS

### Client Sample and Quality Control (QC) Sample Qualifier Definitions:

#### Apex Laboratories

- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- J** Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +13%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +36%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +43%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +7%. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -12%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -14%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -17%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -18%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -20%. The results are reported as Estimated Values.
- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -22%. The results are reported as Estimated Values.
- Q-54l** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-54m** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -8%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

Report ID:

**A3A0313 - 02 01 23 1322**

**Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

Apex Laboratories

A handwritten signature in black ink that reads "Philip Nerenberg".

Philip Nerenberg, Lab Director

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Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

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### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

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Philip Nerenberg, Lab Director



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22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**

Project Manager: **Mike Staton**

**Report ID:**

**A3A0313 - 02 01 23 1322**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nerenberg, Lab Director

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Project Manager: **Mike Staton**

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### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg, Lab Director

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Bothell, WA 98021

Project: Woodinville WestProject Number: 101.20841.00001Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

APEX LABS		CHAIN OF CUSTODY		Lab # <u>A3A0313</u> coc <u>1</u> of <u>1</u>	
Company: <u>SLR</u>		Project Mgr: <u>Mike Staton</u>		Project # <u>101.20841.00001</u>	
Address: <u>22118 20th Ave SE Ste G202 Bothell WA</u>		Project Name: <u>Woodinville West Building C</u>		Phone: <u>425 402 8800</u> Email: <u>mstaton@circulating.com</u>	
Sampled by: <u>Emily Hernandez</u>		ANALYSIS REQUEST			
Site Location:					
State: <u>WA</u>	County:				
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	
MW-1-0123	11/19/23	11:46	Water	10	
MW-2-0123	11/19	1419		10	
MW-3-0123	11/19	1556		5	
MW-4-0123	11/19	1236		10	
MW-8-0123	11/19	1519		5	
MW-9-0123	11/19	1327		10	
					Hold Sample
					Frozen Archive

TAT Requested (circle)		Standard Turn Around Time (TAT) = 10 Business Days	
1 Day	2 Day	3 Day	Other
	<u>2 Day</u>		

SPECIAL INSTRUCTIONS: Nitrate has fast hold time

RECEIVED BY:		RELINQUISHED BY:	
Signature:	Date:	Signature:	Date:
<u>[Signature]</u>	<u>11/19/23</u>	<u>[Signature]</u>	<u>11/19/23</u>
Printed Name:	Time:	Printed Name:	Time:
<u>Emily Hernandez</u>	<u>1730</u>	<u>Mike Staton</u>	<u>1030</u>
Company:		Company:	
<u>SLR</u>		<u>Apex</u>	

Form Y-002 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

 Project: Woodinville West

 Project Number: 101.20841.00001

 Project Manager: Mike Staton

Report ID:

A3A0313 - 02 01 23 1322

**APEX LABS COOLER RECEIPT FORM**

 Client: SLR Element WO#: A3A0313

 Project/Project #: Woodinville West Building C
**Delivery Info:**

 Date/time received: 1/10/23 @ 1030 By: MS

 Delivered by: Apex ☐ Client ☐ ESS ☐ FedEx ☒ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐
**Cooler Inspection** Date/time inspected: 1/10/23 @ 1030 By: MS

 Chain of Custody included? Yes ☒ No ☐

 Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.4</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

 Cooler out of temp? (Y/N) ☒ Possible reason why:

 Green dots applied to out of temperature samples? Yes ☒ No ☐

 Out of temperature samples form initiated? Yes ☒ No ☐
**Sample Inspection:** Date/time inspected: 1/10/23 @ 11:22 By: AAW

 All samples intact? Yes ☒ No ☐ Comments:

 Bottle labels/COCs agree? Yes ☒ No ☐ Comments: For MW-9-0123 the time on the containers reads 13:37

 COC/container discrepancies form initiated? Yes ☐ No ☒

 Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments:

 Do VOA vials have visible headspace? Yes ☐ No ☒ NA ☐

Comments:

 Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐

Comments:

 Additional information: 3932 2538 1522

 Labeled by: AAW

Witness:

MS

 Cooler Inspected by: AAW

Form Y-003 R-00

January 18, 2023



Apex Laboratories  
ATTN: Philip Nerenberg  
6700 S.W. Sandburg St.  
Tigard, OR 97223

LA Cert #04140  
EPA Methods TO3, TO14A, TO15, 25C/3C,  
ASTM D1946, RSK-175

TX Cert T104704450-14-6  
EPA Methods TO14A, TO15

UT Cert CA0133332015-3  
EPA Methods TO3, TO14A, TO15, RSK-175

### LABORATORY TEST RESULTS

Project Reference: A3A0313  
Lab Number: P011202-01/04

Enclosed are results for sample(s) received 1/12/23 by Air Technology Laboratories. Sample was received intact and chilled to 2° C. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

#### Report Narrative:

- Unless otherwise noted in the report, sample analyses were performed within method performance criteria and meet all requirements of the TNI Standards.
- The enclosed results relate only to the sample(s).

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

A handwritten signature in blue ink that reads "Mark Johnson".

Mark Johnson  
Operations Manager  
MJohnson@AirTechLabs.com

Note: The cover letter is an integral part of this analytical report.

## SUBCONTRACT ORDER

Apex Laboratories

A3A0313

AAW 1/11/23

P011202-01/84

SENDING LABORATORY:

Apex Laboratories  
6700 S.W. Sandburg Street  
Tigard, OR 97223  
Phone: (503) 718-2323  
Fax: (503) 336-0745  
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Air Technology Laboratories, Inc  
18501 E. Gale Ave Suite 130  
City of Industry, CA 91748  
Phone : (626) 964-4032  
Fax: (626) 964-5832

Sample Name: MW-1-0123

Water

Sampled: 01/09/23 11:46

(A3A0313-01)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	01/23/23 17:00	01/23/23 11:46	
Containers Supplied:			
01 (H)40 mL VOA - HCL			
(I)40 mL VOA - HCL			
(J)40 mL VOA - HCL			

Sample Name: MW-2-0123

Water

Sampled: 01/09/23 14:19

(A3A0313-02)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	01/23/23 17:00	01/23/23 14:19	
Containers Supplied:			
02 (H)40 mL VOA - HCL			
(I)40 mL VOA - HCL			
(J)40 mL VOA - HCL			

Sample Name: MW-4-0123

Water

Sampled: 01/09/23 12:36

(A3A0313-04)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	01/23/23 17:00	01/23/23 12:36	
Containers Supplied:			
03 (H)40 mL VOA - HCL			
(I)40 mL VOA - HCL			
(J)40 mL VOA - HCL			

Standard TAT

2°C

Released By

Date

UPS (Shipper)

Released By

Date

UPS (Shipper)

Received By

Date

Received By

Date

## SUBCONTRACT ORDER

Apex Laboratories

MB 1/10/23 A3A0313

P011202-01/04

Time on containers reads 13:37

Sample Name: MW-9-0123

Water


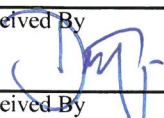
Sampled: 01/09/23 13:27

(A3A0313-06)

Analysis	Due	Expires	Comments
RSK 175 Preserved (Meth, Eth, Eth) (Sub)	01/23/23 17:00	01/23/23 13:27	
Containers Supplied:			
(H)40 mL VOA - HCL			
(I)40 mL VOA - HCL			
(J)40 mL VOA - HCL			

Standard TAT

2°C

Released By	Date	Received By	Date
	1-11-23	UPS (Shipper)	
UPS (Shipper)	1/12/23		1/12/23
Released By	Date	Received By	Date
			10/3

**Client:** Apex Laboratories  
**Attn:** Philip Nerenberg  
**Project Name:** NA  
**Project No.:** A3A0313  
**Date Received:** 01/12/23  
**Matrix:** Water  
**Reporting Units:** ug/L

**RSK175**

Lab No.:	P011202-01		P011202-02		P011202-03		P011202-04		
Client Sample I.D.:	MW-1-0123 (A3A0313-01)		MW-2-0123 (A3A0313-02)		MW-4-0123 (A3A0313-04)		MW-9-0123 (A3A0313-06)		
Date/Time Sampled:	1/9/23 11:46		1/9/23 14:19		1/9/23 12:36		1/9/23 13:27		
Date/Time Analyzed:	1/16/23 11:21		1/16/23 11:33		1/16/23 11:46		1/16/23 12:08		
QC Batch No.:	230116GC8A1		230116GC8A1		230116GC8A1		230116GC8A1		
Analyst Initials:	RC		RC		RC		RC		
Dilution Factor:	1.0		1.0		1.0		1.0		
ANALYTE	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	Result ug/L	RL ug/L	
	Ethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0
	Ethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0
	Methane	1,100	1.0	240	1.0	1,300	1.0	2,100	1.0

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:

*Mark Johnson*

Mark Johnson  
 Operations Manager

Date 01-17-23

The cover letter is an integral part of this analytical report



QC Batch No: 230116GC8A1

Matrix: Water

Reporting Units: ug/L

**RSK 175**  
**LABORATORY CONTROL SAMPLE SUMMARY**

Lab No.:	METHOD BLANK			LCS		LCSD						
Date/Time Analyzed:	1/16/23 11:04			1/16/23 10:35		1/16/23 10:51						
Analyst Initials:	RC			RC		RC						
Dilution Factor:	1.0			1.0		1.0						
ANALYTE		Result ug/L	RL ug/L	SPIKE AMT. ug/L	Result ug/L	% Rec.	Result ug/L	% Rec.	RPD %	Limits		
										Low %Rec	High %Rec	Max. RPD
Ethene	ND	1.0	1,150	1,190	104	1,380	120	14.5	70	130	30	
Ethane	ND	1.0	1,200	1,240	101	1,340	109	7.3	70	130	30	
Methane	ND	1.0	650	658	101	697	106	5.7	70	130	30	

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By:



Mark Johnson  
Operations Manager

Date 01-17-23

The cover letter is an integral part of this analytical report





ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Friday, January 20, 2023

Mike Staton

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

RE: A3A0367 - Woodinville West - 101.20841.00001

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3A0367, which was received by the laboratory on 1/11/2023 at 10:45:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [pnerenberg@apex-labs.com](mailto:pnerenberg@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

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Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler

3.3 degC

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This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

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Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5-0123	A3A0367-01	Water	01/10/23 11:03	01/11/23 10:45
MW-6-0123	A3A0367-02	Water	01/10/23 11:44	01/11/23 10:45
MW-7-0123	A3A0367-03	Water	01/10/23 12:17	01/11/23 10:45

Apex Laboratories

Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628****ANALYTICAL SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-5-0123 (A3A0367-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
Acetone	ND	20.0	20.0	ug/L	1	01/11/23 20:01	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/11/23 20:01	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/11/23 20:01	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/11/23 20:01	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/11/23 20:01	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/11/23 20:01	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**SLR Corporation-Bothell**22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-5-0123 (A3A0367-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	01/11/23 20:01	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/11/23 20:01	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/11/23 20:01	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	01/11/23 20:01	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/11/23 20:01	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/11/23 20:01	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/11/23 20:01	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/11/23 20:01	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %	1	01/11/23 20:01	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-5-0123 (A3A0367-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
Surrogate: Toluene-d8 (Surr)		Recovery: 104 %	Limits: 80-120 %	1	01/11/23 20:01	EPA 8260D		
4-Bromofluorobenzene (Surr)		99 %	80-120 %	1	01/11/23 20:01	EPA 8260D		
<b>MW-6-0123 (A3A0367-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
Acetone	ND	10.0	20.0	ug/L	1	01/11/23 20:56	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/11/23 20:56	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/11/23 20:56	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/11/23 20:56	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/11/23 20:56	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/11/23 20:56	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	

Apex Laboratories

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville WestProject Number: 101.20841.00001  
Project Manager: Mike StatonReport ID:

A3A0367 - 01 20 23 1628

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-6-0123 (A3A0367-02)</b>				<b>Matrix: Water</b>		<b>Batch: 23A0349</b>		
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	01/11/23 20:56	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/11/23 20:56	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/11/23 20:56	EPA 8260D	
4-Methyl-2-pentanone (MIBK)	ND	5.00	10.0	ug/L	1	01/11/23 20:56	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	01/11/23 20:56	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/11/23 20:56	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-6-0123 (A3A0367-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0349</b>			
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/11/23 20:56	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/11/23 20:56	EPA 8260D	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery:</i>	<i>106 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>1</i>	<i>01/11/23 20:56</i>	<i>EPA 8260D</i>
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/11/23 20:56</i>	<i>EPA 8260D</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>01/11/23 20:56</i>	<i>EPA 8260D</i>
<b>MW-7-0123 (A3A0367-03RE2)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0372</b>			
Acetone	ND	10.0	20.0	ug/L	1	01/13/23 17:40	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	01/13/23 17:40	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	01/13/23 17:40	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	01/13/23 17:40	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	01/13/23 17:40	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	01/13/23 17:40	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-7-0123 (A3A0367-03RE2)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0372</b>			
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
cis-1,2-Dichloroethene	1.19	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	01/13/23 17:40	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	01/13/23 17:40	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	01/13/23 17:40	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	01/13/23 17:40	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
Naphthalene	ND	2.00	4.00	ug/L	1	01/13/23 17:40	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	01/13/23 17:40	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	01/13/23 17:40	EPA 8260D	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## ANALYTICAL SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-7-0123 (A3A0367-03RE2)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0372</b>			
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	01/13/23 17:40	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	01/13/23 17:40	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	105 %	Limits:	80-120 %	1	01/13/23 17:40	EPA 8260D
Toluene-d8 (Surr)			102 %		80-120 %	1	01/13/23 17:40	EPA 8260D
4-Bromofluorobenzene (Surr)			98 %		80-120 %	1	01/13/23 17:40	EPA 8260D

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062SLR Corporation-Bothell22118 20th Ave SE, Suite G202  
Bothell, WA 98021Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## ANALYTICAL SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
<b>MW-5-0123 (A3A0367-01)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0286</b>			
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	01/18/23 20:12	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	01/18/23 20:12	EPA 8260D SIM
Toluene-d8 (Surr)			100 %		80-120 %	1	01/18/23 20:12	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			100 %		80-120 %	1	01/18/23 20:12	EPA 8260D SIM
<b>MW-6-0123 (A3A0367-02)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0286</b>			
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	01/18/23 21:06	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	100 %	Limits:	80-120 %	1	01/18/23 21:06	EPA 8260D SIM
Toluene-d8 (Surr)			100 %		80-120 %	1	01/18/23 21:06	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	01/18/23 21:06	EPA 8260D SIM
<b>MW-7-0123 (A3A0367-03)</b>		<b>Matrix: Water</b>			<b>Batch: 23A0286</b>			
Vinyl chloride	0.0447	0.0100	0.0200	ug/L	1	01/18/23 20:39	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	101 %	Limits:	80-120 %	1	01/18/23 20:39	EPA 8260D SIM
Toluene-d8 (Surr)			99 %		80-120 %	1	01/18/23 20:39	EPA 8260D SIM
4-Bromofluorobenzene (Surr)			101 %		80-120 %	1	01/18/23 20:39	EPA 8260D SIM

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Blank (23A0349-BLK1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 14:57							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

Page 11 of 36



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Blank (23A0349-BLK1)						Prepared: 01/11/23 08:30 Analyzed: 01/11/23 14:57						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												

Apex Laboratories

Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Blank (23A0349-BLK1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 14:57							
Surr: Toluene-d8 (Surr)		Recovery: 105 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
LCS (23A0349-BS1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 13:26							
EPA 8260D												
Acetone	42.0	10.0	20.0	ug/L	1	40.0	---	105	80-120%	---	---	ICV-01
Acrylonitrile	21.9	1.00	2.00	ug/L	1	20.0	---	109	80-120%	---	---	
Benzene	19.7	0.100	0.200	ug/L	1	20.0	---	98	80-120%	---	---	
Bromobenzene	16.5	0.250	0.500	ug/L	1	20.0	---	83	80-120%	---	---	
Bromochloromethane	25.1	0.500	1.00	ug/L	1	20.0	---	126	80-120%	---	---	Q-56
Bromodichloromethane	21.8	0.500	1.00	ug/L	1	20.0	---	109	80-120%	---	---	
Bromoform	16.6	0.500	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
Bromomethane	32.7	5.00	5.00	ug/L	1	20.0	---	163	80-120%	---	---	Q-56
2-Butanone (MEK)	44.3	5.00	10.0	ug/L	1	40.0	---	111	80-120%	---	---	ICV-01
n-Butylbenzene	18.0	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
sec-Butylbenzene	18.3	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
tert-Butylbenzene	16.8	0.500	1.00	ug/L	1	20.0	---	84	80-120%	---	---	
Carbon disulfide	19.4	5.00	10.0	ug/L	1	20.0	---	97	80-120%	---	---	
Carbon tetrachloride	19.1	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
Chlorobenzene	19.2	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Chloroethane	23.4	5.00	5.00	ug/L	1	20.0	---	117	80-120%	---	---	ICV-01
Chloroform	20.5	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
Chloromethane	22.2	2.50	5.00	ug/L	1	20.0	---	111	80-120%	---	---	
2-Chlorotoluene	16.6	0.500	1.00	ug/L	1	20.0	---	83	80-120%	---	---	
4-Chlorotoluene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Dibromochloromethane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	14.8	5.00	5.00	ug/L	1	20.0	---	74	80-120%	---	---	Q-55
1,2-Dibromoethane (EDB)	18.4	0.250	0.500	ug/L	1	20.0	---	92	80-120%	---	---	
Dibromomethane	20.7	0.500	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
1,2-Dichlorobenzene	17.3	0.250	0.500	ug/L	1	20.0	---	86	80-120%	---	---	
1,3-Dichlorobenzene	17.6	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
1,4-Dichlorobenzene	17.6	0.250	0.500	ug/L	1	20.0	---	88	80-120%	---	---	
Dichlorodifluoromethane	18.4	0.500	1.00	ug/L	1	20.0	---	92	80-120%	---	---	
1,1-Dichloroethane	21.5	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	

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Philip Nerenberg, Lab Director

Page 13 of 36



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Bothell, WA 98021

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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
LCS (23A0349-BS1)			Prepared: 01/11/23 08:30		Analyzed: 01/11/23 13:26							
1,2-Dichloroethane (EDC)	21.9	0.200	0.400	ug/L	1	20.0	---	110	80-120%	---	---	
1,1-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
cis-1,2-Dichloroethene	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
trans-1,2-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichloropropane	21.0	0.250	0.500	ug/L	1	20.0	---	105	80-120%	---	---	
1,3-Dichloropropane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
2,2-Dichloropropane	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
cis-1,3-Dichloropropene	19.5	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
trans-1,3-Dichloropropene	21.1	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
Ethylbenzene	19.1	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Hexachlorobutadiene	14.4	5.00	5.00	ug/L	1	20.0	---	72	80-120%	---	---	Q-55
2-Hexanone	41.1	5.00	10.0	ug/L	1	40.0	---	103	80-120%	---	---	
Isopropylbenzene	17.2	0.500	1.00	ug/L	1	20.0	---	86	80-120%	---	---	
4-Isopropyltoluene	17.5	0.500	1.00	ug/L	1	20.0	---	88	80-120%	---	---	
Methylene chloride	20.6	5.00	10.0	ug/L	1	20.0	---	103	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	43.3	5.00	10.0	ug/L	1	40.0	---	108	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	16.4	0.500	1.00	ug/L	1	20.0	---	82	80-120%	---	---	
Naphthalene	11.5	2.00	2.00	ug/L	1	20.0	---	58	80-120%	---	---	Q-55
n-Propylbenzene	18.5	0.250	0.500	ug/L	1	20.0	---	93	80-120%	---	---	
Styrene	19.2	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,1,1,2-Tetrachloroethane	18.8	0.200	0.400	ug/L	1	20.0	---	94	80-120%	---	---	
1,1,2,2-Tetrachloroethane	20.8	0.250	0.500	ug/L	1	20.0	---	104	80-120%	---	---	
Tetrachloroethene (PCE)	15.8	0.400	0.400	ug/L	1	20.0	---	79	80-120%	---	---	Q-55
Toluene	17.9	0.500	1.00	ug/L	1	20.0	---	90	80-120%	---	---	
1,2,3-Trichlorobenzene	12.4	2.00	2.00	ug/L	1	20.0	---	62	80-120%	---	---	Q-55
1,2,4-Trichlorobenzene	11.9	2.00	2.00	ug/L	1	20.0	---	60	80-120%	---	---	Q-55
1,1,1-Trichloroethane	18.9	0.200	0.400	ug/L	1	20.0	---	95	80-120%	---	---	
1,1,2-Trichloroethane	19.4	0.250	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
Trichloroethene (TCE)	16.8	0.200	0.400	ug/L	1	20.0	---	84	80-120%	---	---	
Trichlorofluoromethane	24.1	1.00	2.00	ug/L	1	20.0	---	120	80-120%	---	---	
1,2,3-Trichloropropane	19.3	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	
1,2,4-Trimethylbenzene	19.0	0.500	1.00	ug/L	1	20.0	---	95	80-120%	---	---	
1,3,5-Trimethylbenzene	19.1	0.500	1.00	ug/L	1	20.0	---	96	80-120%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
LCS (23A0349-BS1)			Prepared: 01/11/23 08:30			Analyzed: 01/11/23 13:26						
Vinyl chloride	21.3	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
m,p-Xylene	38.6	0.500	1.00	ug/L	1	40.0	---	96	80-120%	---	---	
o-Xylene	17.1	0.250	0.500	ug/L	1	20.0	---	85	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		85 %		80-120 %		"						

## Duplicate (23A0349-DUP1)

Prepared: 01/11/23 13:31 Analyzed: 01/11/23 20:28

QC Source Sample: MW-5-0123 (A3A0367-01)EPA 8260D

Acetone	ND	20.0	20.0	ug/L	1	---	ND	---	---	---	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.100	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director



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A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Duplicate (23A0349-DUP1)			Prepared: 01/11/23 13:31		Analyzed: 01/11/23 20:28							
QC Source Sample: MW-5-0123 (A3A0367-01)												
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.400	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	2.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	

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Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Duplicate (23A0349-DUP1)			Prepared: 01/11/23 13:31		Analyzed: 01/11/23 20:28							
QC Source Sample: MW-5-0123 (A3A0367-01)												
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		105 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

## Matrix Spike (23A0349-MS1)

Prepared: 01/11/23 13:31 Analyzed: 01/12/23 00:09

QC Source Sample: Non-SDG (A3A0355-03)EPA 8260D

Acetone	235	50.0	100	ug/L	5	200	ND	118	39-160%	---	---	ICV-01
Acrylonitrile	111	5.00	10.0	ug/L	5	100	ND	111	63-135%	---	---	
Benzene	103	0.500	1.00	ug/L	5	100	ND	103	79-120%	---	---	
Bromobenzene	83.2	1.25	2.50	ug/L	5	100	ND	83	80-120%	---	---	
Bromochloromethane	128	2.50	5.00	ug/L	5	100	ND	128	78-123%	---	---	Q-54d
Bromodichloromethane	113	2.50	5.00	ug/L	5	100	ND	113	79-125%	---	---	
Bromoform	83.6	2.50	5.00	ug/L	5	100	ND	84	66-130%	---	---	
Bromomethane	180	25.0	25.0	ug/L	5	100	ND	180	53-141%	---	---	Q-54c
2-Butanone (MEK)	230	25.0	50.0	ug/L	5	200	ND	115	56-143%	---	---	ICV-01
n-Butylbenzene	93.8	2.50	5.00	ug/L	5	100	ND	94	75-128%	---	---	
sec-Butylbenzene	96.3	2.50	5.00	ug/L	5	100	ND	96	77-126%	---	---	
tert-Butylbenzene	87.2	2.50	5.00	ug/L	5	100	ND	87	78-124%	---	---	
Carbon disulfide	105	25.0	50.0	ug/L	5	100	ND	105	64-133%	---	---	
Carbon tetrachloride	104	2.50	5.00	ug/L	5	100	ND	104	72-136%	---	---	
Chlorobenzene	98.6	1.25	2.50	ug/L	5	100	ND	99	80-120%	---	---	
Chloroethane	128	25.0	25.0	ug/L	5	100	ND	128	60-138%	---	---	ICV-01
Chloroform	107	2.50	5.00	ug/L	5	100	ND	107	79-124%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Matrix Spike (23A0349-MS1)			Prepared: 01/11/23 13:31		Analyzed: 01/12/23 00:09							
QC Source Sample: Non-SDG (A3A0355-03)												
Chloromethane	118	12.5	25.0	ug/L	5	100	ND	118	50-139%	---	---	Q-54j
2-Chlorotoluene	84.4	2.50	5.00	ug/L	5	100	ND	84	79-122%	---	---	
4-Chlorotoluene	93.0	2.50	5.00	ug/L	5	100	ND	93	78-122%	---	---	
Dibromochloromethane	106	2.50	5.00	ug/L	5	100	ND	106	74-126%	---	---	
1,2-Dibromo-3-chloropropane	76.6	25.0	25.0	ug/L	5	100	ND	77	62-128%	---	---	
1,2-Dibromoethane (EDB)	92.8	1.25	2.50	ug/L	5	100	ND	93	77-121%	---	---	
Dibromomethane	107	2.50	5.00	ug/L	5	100	ND	107	79-123%	---	---	
1,2-Dichlorobenzene	87.8	1.25	2.50	ug/L	5	100	ND	88	80-120%	---	---	
1,3-Dichlorobenzene	89.2	1.25	2.50	ug/L	5	100	ND	89	80-120%	---	---	
1,4-Dichlorobenzene	88.5	1.25	2.50	ug/L	5	100	ND	88	79-120%	---	---	
Dichlorodifluoromethane	104	2.50	5.00	ug/L	5	100	ND	104	32-152%	---	---	Q-54k
1,1-Dichloroethane	113	1.00	2.00	ug/L	5	100	ND	113	77-125%	---	---	
1,2-Dichloroethane (EDC)	112	1.00	2.00	ug/L	5	100	ND	112	73-128%	---	---	
1,1-Dichloroethene	112	1.00	2.00	ug/L	5	100	ND	112	71-131%	---	---	
cis-1,2-Dichloroethene	177	1.00	2.00	ug/L	5	100	68.2	109	78-123%	---	---	
trans-1,2-Dichloroethene	103	1.00	2.00	ug/L	5	100	ND	103	75-124%	---	---	
1,2-Dichloropropane	108	1.25	2.50	ug/L	5	100	ND	108	78-122%	---	---	
1,3-Dichloropropane	100	2.50	5.00	ug/L	5	100	ND	100	80-120%	---	---	
2,2-Dichloropropane	83.7	2.50	5.00	ug/L	5	100	ND	84	60-139%	---	---	
1,1-Dichloropropene	100	2.50	5.00	ug/L	5	100	ND	100	79-125%	---	---	
cis-1,3-Dichloropropene	81.0	2.50	5.00	ug/L	5	100	ND	81	75-124%	---	---	Q-54i
trans-1,3-Dichloropropene	103	2.50	5.00	ug/L	5	100	ND	103	73-127%	---	---	
Ethylbenzene	100	1.25	2.50	ug/L	5	100	ND	100	79-121%	---	---	
Hexachlorobutadiene	77.6	25.0	25.0	ug/L	5	100	ND	78	66-134%	---	---	
2-Hexanone	214	25.0	50.0	ug/L	5	200	ND	107	57-139%	---	---	
Isopropylbenzene	90.4	2.50	5.00	ug/L	5	100	ND	90	72-131%	---	---	
4-Isopropyltoluene	91.0	2.50	5.00	ug/L	5	100	ND	91	77-127%	---	---	
Methylene chloride	107	25.0	50.0	ug/L	5	100	ND	107	74-124%	---	---	Q-54i
4-Methyl-2-pentanone (MiBK)	219	25.0	50.0	ug/L	5	200	ND	109	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	83.4	2.50	5.00	ug/L	5	100	ND	83	71-124%	---	---	
Naphthalene	57.5	10.0	10.0	ug/L	5	100	ND	58	61-128%	---	---	
n-Propylbenzene	95.6	1.25	2.50	ug/L	5	100	ND	96	76-126%	---	---	
Styrene	98.6	2.50	5.00	ug/L	5	100	ND	99	78-123%	---	---	

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Philip Nerenberg, Lab Director

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0349 - EPA 5030C						Water						
Matrix Spike (23A0349-MS1)			Prepared: 01/11/23 13:31		Analyzed: 01/12/23 00:09							
QC Source Sample: Non-SDG (A3A0355-03)												
1,1,1,2-Tetrachloroethane	96.0	1.00	2.00	ug/L	5	100	ND	96	78-124%	---	---	
1,1,2,2-Tetrachloroethane	105	1.25	2.50	ug/L	5	100	ND	105	71-121%	---	---	
Tetrachloroethene (PCE)	84.9	2.00	2.00	ug/L	5	100	2.70	82	74-129%	---	---	Q-54f
Toluene	92.1	2.50	5.00	ug/L	5	100	ND	92	80-121%	---	---	
1,2,3-Trichlorobenzene	61.4	10.0	10.0	ug/L	5	100	ND	61	69-129%	---	---	Q-54g
1,2,4-Trichlorobenzene	59.2	10.0	10.0	ug/L	5	100	ND	59	69-130%	---	---	Q-54h
1,1,1-Trichloroethane	101	1.00	2.00	ug/L	5	100	ND	101	74-131%	---	---	
1,1,2-Trichloroethane	97.4	1.25	2.50	ug/L	5	100	ND	97	80-120%	---	---	
Trichloroethene (TCE)	329	1.00	2.00	ug/L	5	100	262	66	79-123%	---	---	Q-01
Trichlorofluoromethane	139	5.00	10.0	ug/L	5	100	ND	139	65-141%	---	---	
1,2,3-Trichloropropane	97.4	2.50	5.00	ug/L	5	100	ND	97	73-122%	---	---	
1,2,4-Trimethylbenzene	97.3	2.50	5.00	ug/L	5	100	ND	97	76-124%	---	---	
1,3,5-Trimethylbenzene	97.6	2.50	5.00	ug/L	5	100	ND	98	75-124%	---	---	
Vinyl chloride	119	1.00	2.00	ug/L	5	100	ND	119	58-137%	---	---	
m,p-Xylene	200	2.50	5.00	ug/L	5	200	ND	100	80-121%	---	---	
o-Xylene	88.0	1.25	2.50	ug/L	5	100	ND	88	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		84 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

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503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
Blank (23A0372-BLK1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 12:06							
EPA 8260D												
Acetone	ND	10.0	20.0	ug/L	1	---	---	---	---	---	---	
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
Benzene	ND	0.100	0.200	ug/L	1	---	---	---	---	---	---	
Bromobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromoform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Bromomethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Chloroethane	ND	5.00	5.00	ug/L	1	---	---	---	---	---	---	
Chloroform	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Chloromethane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dibromomethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
<b>Batch 23A0372 - EPA 5030C</b>						<b>Water</b>						
<b>Blank (23A0372-BLK1)</b>						Prepared: 01/13/23 09:00 Analyzed: 01/13/23 12:06						
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	---	---	---	---	---	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	2.00	4.00	ug/L	1	---	---	---	---	---	---	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Styrene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Toluene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	---	---	---	---	---	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	---	---	---	---	---	
o-Xylene	ND	0.250	0.500	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x												

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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SLR Corporation-Bothell

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Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
Blank (23A0372-BLK1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 12:06							
Surr: Toluene-d8 (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						
LCS (23A0372-BS1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 10:50							
EPA 8260D												
Acetone	36.4	10.0	20.0	ug/L	1	40.0	---	91	80-120%	---	---	
Acrylonitrile	18.7	1.00	2.00	ug/L	1	20.0	---	93	80-120%	---	---	
Benzene	20.2	0.100	0.200	ug/L	1	20.0	---	101	80-120%	---	---	
Bromobenzene	19.9	0.250	0.500	ug/L	1	20.0	---	99	80-120%	---	---	
Bromochloromethane	21.3	0.500	1.00	ug/L	1	20.0	---	106	80-120%	---	---	
Bromodichloromethane	20.0	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Bromoform	20.2	0.500	1.00	ug/L	1	20.0	---	101	80-120%	---	---	
Bromomethane	29.6	5.00	5.00	ug/L	1	20.0	---	148	80-120%	---	---	Q-56
2-Butanone (MEK)	39.5	5.00	10.0	ug/L	1	40.0	---	99	80-120%	---	---	
n-Butylbenzene	24.1	0.500	1.00	ug/L	1	20.0	---	121	80-120%	---	---	Q-56
sec-Butylbenzene	25.6	0.500	1.00	ug/L	1	20.0	---	128	80-120%	---	---	Q-56
tert-Butylbenzene	23.9	0.500	1.00	ug/L	1	20.0	---	120	80-120%	---	---	
Carbon disulfide	21.0	5.00	10.0	ug/L	1	20.0	---	105	80-120%	---	---	
Carbon tetrachloride	22.0	0.500	1.00	ug/L	1	20.0	---	110	80-120%	---	---	
Chlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Chloroethane	23.7	5.00	5.00	ug/L	1	20.0	---	119	80-120%	---	---	
Chloroform	20.1	0.500	1.00	ug/L	1	20.0	---	100	80-120%	---	---	
Chloromethane	21.4	2.50	5.00	ug/L	1	20.0	---	107	80-120%	---	---	
2-Chlorotoluene	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
4-Chlorotoluene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
Dibromochloromethane	20.9	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,2-Dibromo-3-chloropropane	18.2	2.50	5.00	ug/L	1	20.0	---	91	80-120%	---	---	
1,2-Dibromoethane (EDB)	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Dibromomethane	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,2-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0	---	103	80-120%	---	---	
1,3-Dichlorobenzene	21.4	0.250	0.500	ug/L	1	20.0	---	107	80-120%	---	---	
1,4-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Dichlorodifluoromethane	22.5	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
1,1-Dichloroethane	20.7	0.200	0.400	ug/L	1	20.0	---	104	80-120%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
LCS (23A0372-BS1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 10:50							
1,2-Dichloroethane (EDC)	19.7	0.200	0.400	ug/L	1	20.0	---	99	80-120%	---	---	
1,1-Dichloroethene	22.3	0.200	0.400	ug/L	1	20.0	---	112	80-120%	---	---	
cis-1,2-Dichloroethene	21.4	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
trans-1,2-Dichloroethene	21.2	0.200	0.400	ug/L	1	20.0	---	106	80-120%	---	---	
1,2-Dichloropropane	20.3	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
1,3-Dichloropropane	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
2,2-Dichloropropane	21.7	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,1-Dichloropropene	22.3	0.500	1.00	ug/L	1	20.0	---	112	80-120%	---	---	
cis-1,3-Dichloropropene	22.3	0.500	1.00	ug/L	1	20.0	---	111	80-120%	---	---	
trans-1,3-Dichloropropene	22.5	0.500	1.00	ug/L	1	20.0	---	113	80-120%	---	---	
Ethylbenzene	22.3	0.250	0.500	ug/L	1	20.0	---	112	80-120%	---	---	
Hexachlorobutadiene	23.2	2.50	5.00	ug/L	1	20.0	---	116	80-120%	---	---	
2-Hexanone	32.4	5.00	10.0	ug/L	1	40.0	---	81	80-120%	---	---	
Isopropylbenzene	20.4	0.500	1.00	ug/L	1	20.0	---	102	80-120%	---	---	
4-Isopropyltoluene	21.6	0.500	1.00	ug/L	1	20.0	---	108	80-120%	---	---	
Methylene chloride	20.8	5.00	10.0	ug/L	1	20.0	---	104	80-120%	---	---	
4-Methyl-2-pentanone (MiBK)	41.3	5.00	10.0	ug/L	1	40.0	---	103	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
Naphthalene	16.8	2.00	4.00	ug/L	1	20.0	---	84	80-120%	---	---	
n-Propylbenzene	22.7	0.250	0.500	ug/L	1	20.0	---	114	80-120%	---	---	
Styrene	19.6	0.500	1.00	ug/L	1	20.0	---	98	80-120%	---	---	
1,1,1,2-Tetrachloroethane	20.2	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
1,1,2,2-Tetrachloroethane	19.1	0.250	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Tetrachloroethene (PCE)	21.7	0.200	0.400	ug/L	1	20.0	---	108	80-120%	---	---	
Toluene	21.0	0.500	1.00	ug/L	1	20.0	---	105	80-120%	---	---	
1,2,3-Trichlorobenzene	21.4	1.00	2.00	ug/L	1	20.0	---	107	80-120%	---	---	
1,2,4-Trichlorobenzene	21.6	1.00	2.00	ug/L	1	20.0	---	108	80-120%	---	---	
1,1,1-Trichloroethane	21.3	0.200	0.400	ug/L	1	20.0	---	107	80-120%	---	---	
1,1,2-Trichloroethane	20.4	0.250	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Trichloroethene (TCE)	20.1	0.200	0.400	ug/L	1	20.0	---	101	80-120%	---	---	
Trichlorofluoromethane	22.8	1.00	2.00	ug/L	1	20.0	---	114	80-120%	---	---	
1,2,3-Trichloropropane	19.3	0.500	1.00	ug/L	1	20.0	---	97	80-120%	---	---	
1,2,4-Trimethylbenzene	20.8	0.500	1.00	ug/L	1	20.0	---	104	80-120%	---	---	
1,3,5-Trimethylbenzene	24.6	0.500	1.00	ug/L	1	20.0	---	123	80-120%	---	---	Q-56

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
LCS (23A0372-BS1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 10:50							
Vinyl chloride	23.0	0.200	0.400	ug/L	1	20.0	---	115	80-120%	---	---	
m,p-Xylene	48.0	0.500	1.00	ug/L	1	40.0	---	120	80-120%	---	---	
o-Xylene	23.0	0.250	0.500	ug/L	1	20.0	---	115	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

## Duplicate (23A0372-DUP1)

Prepared: 01/13/23 09:00 Analyzed: 01/13/23 13:13

## QC Source Sample: Non-SDG (A3A0438-01)

Acetone	46.8	10.0	20.0	ug/L	1	---	44.6	---	---	5	30%
Acrylonitrile	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%
Benzene	ND	0.200	0.200	ug/L	1	---	ND	---	---	---	30%
Bromobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Bromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromodichloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromoform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Bromomethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
n-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Carbon disulfide	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Chloroethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
Chloroform	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Chloromethane	ND	5.00	5.00	ug/L	1	---	ND	---	---	---	30%
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
Dibromochloromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%
Dibromomethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%

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Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628****QUALITY CONTROL (QC) SAMPLE RESULTS****Volatile Organic Compounds by EPA 8260D**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
Duplicate (23A0372-DUP1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 13:13							
QC Source Sample: Non-SDG (A3A0438-01)												
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	---	ND	---	---	---	30%	
2-Hexanone	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Methylene chloride	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	2.00	4.00	ug/L	1	---	ND	---	---	---	30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Styrene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

SLR Corporation-Bothell

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Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
Duplicate (23A0372-DUP1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 13:13							
QC Source Sample: Non-SDG (A3A0438-01)												
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1	---	ND	---	---	---	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1	---	ND	---	---	---	30%	
o-Xylene	ND	0.250	0.500	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		101 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (23A0372-MS1)						Prepared: 01/13/23 09:00 Analyzed: 01/13/23 13:57						
QC Source Sample: Non-SDG (A3A0437-07)												
EPA 8260D												
Acetone	4930	10.0	20.0	ug/L	1	40.0	5480	-1360	39-160%	---	---	Q-03
Acrylonitrile	19.4	1.00	2.00	ug/L	1	20.0	ND	97	63-135%	---	---	
Benzene	20.0	0.100	0.200	ug/L	1	20.0	ND	100	79-120%	---	---	
Bromobenzene	18.3	0.250	0.500	ug/L	1	20.0	ND	92	80-120%	---	---	
Bromochloromethane	20.9	0.500	1.00	ug/L	1	20.0	ND	105	78-123%	---	---	
Bromodichloromethane	19.5	0.500	1.00	ug/L	1	20.0	ND	98	79-125%	---	---	
Bromoform	19.2	0.500	1.00	ug/L	1	20.0	ND	96	66-130%	---	---	
Bromomethane	29.8	5.00	5.00	ug/L	1	20.0	ND	149	53-141%	---	---	Q-54a
2-Butanone (MEK)	42.6	5.00	10.0	ug/L	1	40.0	ND	106	56-143%	---	---	
n-Butylbenzene	22.6	0.500	1.00	ug/L	1	20.0	ND	113	75-128%	---	---	Q-54b
sec-Butylbenzene	24.2	0.500	1.00	ug/L	1	20.0	ND	121	77-126%	---	---	Q-54c
tert-Butylbenzene	23.1	0.500	1.00	ug/L	1	20.0	ND	115	78-124%	---	---	
Carbon disulfide	21.5	5.00	10.0	ug/L	1	20.0	ND	107	64-133%	---	---	
Carbon tetrachloride	21.9	0.500	1.00	ug/L	1	20.0	ND	109	72-136%	---	---	
Chlorobenzene	18.9	0.250	0.500	ug/L	1	20.0	ND	95	80-120%	---	---	
Chloroethane	23.0	5.00	5.00	ug/L	1	20.0	ND	115	60-138%	---	---	
Chloroform	20.5	0.500	1.00	ug/L	1	20.0	1.15	97	79-124%	---	---	
Chloromethane	20.8	2.50	5.00	ug/L	1	20.0	ND	104	50-139%	---	---	

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Philip Nerenberg, Lab Director



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Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
Matrix Spike (23A0372-MS1)				Prepared: 01/13/23 09:00		Analyzed: 01/13/23 13:57						
QC Source Sample: Non-SDG (A3A0437-07)												
2-Chlorotoluene	20.4	0.500	1.00	ug/L	1	20.0	ND	102	79-122%	---	---	
4-Chlorotoluene	21.1	0.500	1.00	ug/L	1	20.0	ND	105	78-122%	---	---	
Dibromochloromethane	19.6	0.500	1.00	ug/L	1	20.0	ND	98	74-126%	---	---	
1,2-Dibromo-3-chloropropane	18.8	2.50	5.00	ug/L	1	20.0	ND	94	62-128%	---	---	
1,2-Dibromoethane (EDB)	19.6	0.250	0.500	ug/L	1	20.0	ND	98	77-121%	---	---	
Dibromomethane	19.5	0.500	1.00	ug/L	1	20.0	ND	97	79-123%	---	---	
1,2-Dichlorobenzene	19.4	0.250	0.500	ug/L	1	20.0	ND	97	80-120%	---	---	
1,3-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0	ND	99	80-120%	---	---	
1,4-Dichlorobenzene	18.5	0.250	0.500	ug/L	1	20.0	ND	93	79-120%	---	---	
Dichlorodifluoromethane	22.7	0.500	1.00	ug/L	1	20.0	ND	114	32-152%	---	---	
1,1-Dichloroethane	20.3	0.200	0.400	ug/L	1	20.0	ND	102	77-125%	---	---	
1,2-Dichloroethane (EDC)	19.7	0.200	0.400	ug/L	1	20.0	ND	97	73-128%	---	---	
1,1-Dichloroethene	23.0	0.200	0.400	ug/L	1	20.0	ND	115	71-131%	---	---	
cis-1,2-Dichloroethene	20.7	0.200	0.400	ug/L	1	20.0	ND	103	78-123%	---	---	
trans-1,2-Dichloroethene	21.4	0.200	0.400	ug/L	1	20.0	ND	107	75-124%	---	---	
1,2-Dichloropropane	20.2	0.250	0.500	ug/L	1	20.0	ND	100	78-122%	---	---	
1,3-Dichloropropane	19.4	0.500	1.00	ug/L	1	20.0	ND	97	80-120%	---	---	
2,2-Dichloropropane	20.8	0.500	1.00	ug/L	1	20.0	ND	104	60-139%	---	---	
1,1-Dichloropropene	22.4	0.500	1.00	ug/L	1	20.0	ND	112	79-125%	---	---	
cis-1,3-Dichloropropene	20.6	0.500	1.00	ug/L	1	20.0	ND	103	75-124%	---	---	
trans-1,3-Dichloropropene	21.1	0.500	1.00	ug/L	1	20.0	ND	105	73-127%	---	---	
Ethylbenzene	21.3	0.250	0.500	ug/L	1	20.0	ND	106	79-121%	---	---	
Hexachlorobutadiene	21.2	2.50	5.00	ug/L	1	20.0	ND	106	66-134%	---	---	
2-Hexanone	34.6	5.00	10.0	ug/L	1	40.0	ND	87	57-139%	---	---	
Isopropylbenzene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	72-131%	---	---	
4-Isopropyltoluene	20.1	0.500	1.00	ug/L	1	20.0	ND	101	77-127%	---	---	
Methylene chloride	19.0	5.00	10.0	ug/L	1	20.0	ND	95	74-124%	---	---	
4-Methyl-2-pentanone (MiBK)	43.9	5.00	10.0	ug/L	1	40.0	ND	110	67-130%	---	---	
Methyl tert-butyl ether (MTBE)	20.5	0.500	1.00	ug/L	1	20.0	ND	102	71-124%	---	---	
Naphthalene	16.2	2.00	4.00	ug/L	1	20.0	ND	81	61-128%	---	---	
n-Propylbenzene	21.4	0.250	0.500	ug/L	1	20.0	ND	107	76-126%	---	---	
Styrene	18.5	0.500	1.00	ug/L	1	20.0	ND	93	78-123%	---	---	
1,1,1,2-Tetrachloroethane	18.6	0.200	0.400	ug/L	1	20.0	ND	93	78-124%	---	---	

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Philip Nerenberg, Lab Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0372 - EPA 5030C						Water						
Matrix Spike (23A0372-MS1)			Prepared: 01/13/23 09:00		Analyzed: 01/13/23 13:57							
QC Source Sample: Non-SDG (A3A0437-07)												
1,1,2,2-Tetrachloroethane	18.4	0.250	0.500	ug/L	1	20.0	ND	92	71-121%	---	---	Q-54b
Tetrachloroethene (PCE)	20.3	0.200	0.400	ug/L	1	20.0	ND	102	74-129%	---	---	
Toluene	20.1	0.500	1.00	ug/L	1	20.0	ND	100	80-121%	---	---	
1,2,3-Trichlorobenzene	19.2	1.00	2.00	ug/L	1	20.0	ND	96	69-129%	---	---	
1,2,4-Trichlorobenzene	19.7	1.00	2.00	ug/L	1	20.0	ND	98	69-130%	---	---	
1,1,1-Trichloroethane	21.4	0.200	0.400	ug/L	1	20.0	ND	107	74-131%	---	---	
1,1,2-Trichloroethane	19.0	0.250	0.500	ug/L	1	20.0	ND	95	80-120%	---	---	
Trichloroethene (TCE)	19.6	0.200	0.400	ug/L	1	20.0	ND	98	79-123%	---	---	
Trichlorofluoromethane	23.4	1.00	2.00	ug/L	1	20.0	ND	117	65-141%	---	---	
1,2,3-Trichloropropane	18.8	0.500	1.00	ug/L	1	20.0	ND	94	73-122%	---	---	
1,2,4-Trimethylbenzene	19.3	0.500	1.00	ug/L	1	20.0	ND	97	76-124%	---	---	
1,3,5-Trimethylbenzene	23.0	0.500	1.00	ug/L	1	20.0	ND	115	75-124%	---	---	
Vinyl chloride	22.5	0.200	0.400	ug/L	1	20.0	ND	113	58-137%	---	---	
m,p-Xylene	45.9	0.500	1.00	ug/L	1	40.0	ND	115	80-121%	---	---	
o-Xylene	22.0	0.250	0.500	ug/L	1	20.0	ND	110	78-122%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		98 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		96 %		80-120 %		"						

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Bothell, WA 98021

Project: Woodinville West

Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Vinyl Chloride by EPA 8260D SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23A0286 - EPA 5030C						Water						
Blank (23A0286-BLK1)			Prepared: 01/18/23 15:00   Analyzed: 01/18/23 18:24									
EPA 8260D SIM												
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						
LCS (23A0286-BS1)			Prepared: 01/18/23 15:00   Analyzed: 01/18/23 17:31									
EPA 8260D SIM												
Vinyl chloride	0.198	0.0100	0.0200	ug/L	1	0.200	---	99	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 98 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		97 %		80-120 %		"						
Duplicate (23A0286-DUP1)			Prepared: 01/18/23 15:00   Analyzed: 01/18/23 19:18									
QC Source Sample: Non-SDG (A3A0313-02)												
Vinyl chloride	0.0815	0.0100	0.0200	ug/L	1	---	0.104	---	---	24	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 100 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						
Matrix Spike (23A0286-MS1)			Prepared: 01/18/23 15:00   Analyzed: 01/18/23 21:33									
QC Source Sample: MW-6-0123 (A3A0367-02)												
EPA 8260D SIM												
Vinyl chloride	0.228	0.0100	0.0200	ug/L	1	0.200	ND	114	58-137%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

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Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202

Bothell, WA 98021

Project: **Woodinville West**Project Number: **101.20841.00001**Project Manager: **Mike Staton****Report ID:****A3A0367 - 01 20 23 1628**

## SAMPLE PREPARATION INFORMATION

## Volatile Organic Compounds by EPA 8260D

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23A0349</u>							
A3A0367-01	Water	EPA 8260D	01/10/23 11:03	01/11/23 13:31	5mL/5mL	5mL/5mL	1.00
A3A0367-02	Water	EPA 8260D	01/10/23 11:44	01/11/23 13:31	5mL/5mL	5mL/5mL	1.00
<u>Batch: 23A0372</u>							
A3A0367-03RE2	Water	EPA 8260D	01/10/23 12:17	01/12/23 15:02	5mL/5mL	5mL/5mL	1.00

## Vinyl Chloride by EPA 8260D SIM

Prep: EPA 5030C

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23A0286</u>							
A3A0367-01	Water	EPA 8260D SIM	01/10/23 11:03	01/18/23 15:00	5mL/5mL	5mL/5mL	1.00
A3A0367-02	Water	EPA 8260D SIM	01/10/23 11:44	01/18/23 15:00	5mL/5mL	5mL/5mL	1.00
A3A0367-03	Water	EPA 8260D SIM	01/10/23 12:17	01/18/23 15:00	5mL/5mL	5mL/5mL	1.00

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Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Mike Staton**

**Report ID:**

**A3A0367 - 01 20 23 1628**

## QUALIFIER DEFINITIONS

### **Client Sample and Quality Control (QC) Sample Qualifier Definitions:**

#### **Apex Laboratories**

- ICV-01** Estimated Result. Initial Calibration Verification (ICV) failed high. There is no effect on non-detect results.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03** Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-54** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +28%. The results are reported as Estimated Values.
- Q-54b** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +3%. The results are reported as Estimated Values.
- Q-54c** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +43%. The results are reported as Estimated Values.
- Q-54d** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +6. The results are reported as Estimated Values.
- Q-54e** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.
- Q-54f** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
- Q-54g** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -18%. The results are reported as Estimated Values.
- Q-54h** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -20%. The results are reported as Estimated Values.
- Q-54i** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -22%. The results are reported as Estimated Values.
- Q-54j** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -6%. The results are reported as Estimated Values.
- Q-54k** Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -8%. The results are reported as Estimated Values.
- Q-55** Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56** Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

Apex Laboratories

Philip Nerenberg, Lab Director

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**SLR Corporation-Bothell**

22118 20th Ave SE, Suite G202  
Bothell, WA 98021

Project: **Woodinville West**

Project Number: **101.20841.00001**  
Project Manager: **Mike Staton**

**Report ID:**

**A3A0367 - 01 20 23 1628**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.  
  
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")  
See Percent Solids section for details of dry weight analysis.  
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.  
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.  
  
" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).  
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.  
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.  
For further details, please request a copy of this document.

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Philip Nerenberg, Lab Director

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**A3A0367 - 01 20 23 1628**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks (Cont.):**

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

#### **Apex Laboratories**

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

#### **Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

#### **Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

#### **Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Project Number: 101.20841.00001

Project Manager: Mike Staton

Report ID:

A3A0367 - 01 20 23 1628

## APEX LABS COOLER RECEIPT FORM

Client: SLR Element WO#: A3A0367

Project/Project #: Woodinville West Building C / 101.20841.00001

## Delivery Info:

Date/time received: 1/11/23 @ 1045 By: DJS

Delivered by: Apex Client ESS FedEx X UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 1/11/23 @ 1046 By: DJS

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.3						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes X No

Out of temperature samples form initiated? Yes No

Sample Inspection Date/time inspected: 1-11-23 @ 1059 By: DJS

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No X NA

Comments:

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X

Comments:

Additional information: 3932 7116 3788

Labeled by:

DJS

Witness:

ZM

Cooler Inspected by:

DJS

Form Y-003 R-00

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

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## Gene-Trac® Certificate of Analysis

**Customer:** Mike Staton

**Email:** mstaton@slrconsulting.com

**Phone:** 425-402-8800

**Company:** SLR

**Project Name:** Woodinville West Building C

**Method Reference:** SOP-002, 019, 108, 114, & 116

**Batch Reference:** S-9598

**Report Date:** 23-Jan-23

**Certificate Number:** CAG-0295

**Test Location(s):** Knoxville and Guelph

**Customer Reference:** 101.20841.00001

The results included herein only apply to the samples described within and are applicable to the items as received.

SOP-116 (DNA Extraction) and SOP-114 (DNA Quantification) were performed in SiREM Knoxville, the remainder of testing was performed at SiREM Guelph.

This certificate is not to be reproduced unless in full.

## Certificate of Analysis: Gene-Trac® Functional Gene Assay

**Certificate number:** CAG-0295


**Data File(s):** QS3B-FGA-QPCR-1383


**Run Date(s):** 17-Jan-23

**Table 1: Test Results**

Sample ID	VC Reductase ( <i>vcrA</i> )		BAV1 VC Reductase ( <i>bvcA</i> )		TCE Reductase ( <i>tceA</i> )	
	Percent <i>vcrA</i> <sup>(1)</sup>	Gene Copies/Liter <sup>(2)</sup>	Percent <i>bvcA</i> <sup>(1)</sup>	Gene Copies/Liter <sup>(2)</sup>	Percent <i>tceA</i> <sup>(1)</sup>	Gene Copies/Liter <sup>(2)</sup>
MW-1-0123	NA	8 x 10 <sup>2</sup> U	NA	8 x 10 <sup>2</sup> U	NA	8 x 10 <sup>2</sup> U
MW-2-0123	NA	1 x 10 <sup>3</sup> U	NA	1 x 10 <sup>3</sup> U	NA	1 x 10 <sup>3</sup> U

See final page for notes.

**Analyst:**   
**KJ Elipse-Cruz, B.Sc.**  
**Laboratory Technician I**

**Approved:**   
**Jen Wilkinson**  
**Senior Laboratory Technician II**

**Table 2: Detailed Test Parameters, Test Certificate CAG-0295**

<b>Customer Sample ID</b>	MW-1-0123	MW-2-0123
<b>Date Sampled</b> <sup>(3)</sup>	9-Jan-23	9-Jan-23
<b>Matrix</b>	Groundwater	Groundwater
<b>Date Received</b> <sup>(3)</sup>	11-Jan-23	11-Jan-23
<b>Sample Temperature</b>	4.3 °C	4.3 °C
<b>Filtration Date</b> <sup>(3)</sup>	11-Jan-23	11-Jan-23
<b>Volume Used for DNA Extraction</b>	300 mL	200 mL
<b>DNA Extraction Date</b>	12-Jan-23	12-Jan-23
<b>DNA Concentration in Sample (extractable)</b>	170 ng/L (J)	233 ng/L (J)
<b>PCR Amplifiable DNA</b>	Detected	Detected
<b>DNA Extraction Control</b> <sup>(4)</sup>	Passed	Passed
<b>Detection Limit (copies/L)</b>	$8 \times 10^2$	$1 \times 10^3$
<b>Quantitation Limit (copies/L)</b>	$2 \times 10^3$	$3 \times 10^3$
<b>qPCR Controls (see Table 3)</b>	Passed	Passed
<b>Comments</b>	--	--

See final page for notes.

**Table 3: Gene-Trac FGA Control Results, Test Reference CAG-0295**

Laboratory Control	Analysis Date	Control Description	<i>vcrA</i>		<i>bvcA</i>		<i>tceA</i>		Comments
			Spiked Gene Copies per Liter	Recovered Gene Copies per Liter	Spiked Gene Copies per Liter	Recovered Gene Copies per Liter	Spiked Gene Copies per Liter	Recovered Gene Copies per Liter	
<b>Positive Control Low Concentration</b>	17-Jan-23	Synthetic DNA (CSLF-1251)	$5.7 \times 10^6$	$8.0 \times 10^6$	$5.5 \times 10^6$	$4.9 \times 10^6$	$6.3 \times 10^6$	$6.0 \times 10^6$	Passed
<b>Positive Control High Concentration</b>	17-Jan-23	Synthetic DNA (CSHF-1251)	$6.0 \times 10^8$	$7.4 \times 10^8$	$5.7 \times 10^8$	$5.1 \times 10^8$	$6.4 \times 10^8$	$5.1 \times 10^8$	Passed
<b>DNA Extraction Blank</b>	17-Jan-23	Sterile Water (FB-4267)	0	$5.0 \times 10^2$ U	0	$5.0 \times 10^2$ U	0	$5.0 \times 10^2$ U	Passed
<b>Negative Control</b>	17-Jan-23	Reagent Blank (TBF-1222)	0	$5.0 \times 10^2$ U	0	$5.0 \times 10^2$ U	0	$5.0 \times 10^2$ U	Passed

See final page for notes.

**Notes:**

*vcrA* = VC reductase

*bvcA* = BAV1 VC reductase

*tceA* = TCE reductase

FGA = functional gene assay

M Non-specific amplification was observed via melt curve analysis

J The associated value is an estimated quantity between the detection limit and quantitation limit.

U Not detected, associated value is the detection limit.

B Analyte was detected in the method blank within an order of magnitude of the test sample.

E Extracted genomic DNA was not detected in the sample.

I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.

ng/L = nanograms per liter

mL = milliliter

NA = not applicable

ND = not detected

DNA = deoxyribonucleic acid

PCR = polymerase chain reaction

qPCR = quantitative PCR

°C = degrees Celsius

<sup>1</sup> Percent of functional gene in microbial population. This value is calculated by dividing the functional gene copies quantified by the total number of estimated prokaryotes in the sample (based on the total quantity of DNA extracted from the sample). A value of 100% would suggest that all microbes in the sample contain the gene.

<sup>2</sup> Target quantitation is subject to the variability of the method, this variability has been demonstrated to be +/- 60%.

<sup>3</sup> Samples are stabilized by freezing at -80 °C upon sample reception (field filters) or in-lab filtration (groundwater). Hold time not exceeded if sampling date is within 14 days of date received or filtration date.

<sup>4</sup> DNA is extracted from a standardized bacterial culture sample once per week and Total Bacteria qPCR is performed using standard methods. A recovery greater than 25% of the expected value is deemed acceptable.

<sup>5</sup> Control was outside recovery limit guidelines (+/- 50%), however, test results are deemed acceptable if one of two positive controls fall within the recovery limit guidelines.

[illegible]

## AIR SAMPLES

FRIEDMAN & BRUYA, INC.

---

ENVIRONMENTAL CHEMISTS

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

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

July 21, 2022

Greg Lish, Project Manager  
SLR International Corp.  
22118 20th Ave. SE, G-202  
Bothell, WA 98021

Dear Mr Lish:

Included are the results from the testing of material submitted on July 14, 2022 from the Woodinville Business Park 128.20841.00001, F&BI 207221 project. There are 7 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
SLR0721R.DOC

FRIEDMAN & BRUYA, INC.

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ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 14, 2022 by Friedman & Bruya, Inc. from the SLR International Corp. Woodinville Business Park 128.20841.00001, F&BI 207221 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SLR International Corp.</u>
207221 -01	IA-1-0722
207221 -02	IA-2-0722
207221 -03	AA-1-0722

A TO-15 internal standard failed the acceptance criteria for sample AA-1-0722. The affected data were flagged accordingly.

All other quality control requirements were acceptable.

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA-1-0722	Client:	SLR International Corp.
Date Received:	07/14/22	Project:	128.20841.00001, F&BI 207221
Date Collected:	07/13/22	Lab ID:	207221-01 1/1.3
Date Analyzed:	07/16/22	Data File:	071526.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	88	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.10
Chloroethane	<3.4	<1.3
1,1-Dichloroethene	<0.52	<0.13
trans-1,2-Dichloroethene	<0.52	<0.13
1,1-Dichloroethane	<0.53	<0.13
cis-1,2-Dichloroethene	<0.52	<0.13
1,2-Dichloroethane (EDC)	<0.053	<0.013
1,1,1-Trichloroethane	<0.71	<0.13
Trichloroethene	<0.14	<0.026
1,1,2-Trichloroethane	<0.071	<0.013
Tetrachloroethene	<8.8	<1.3

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	IA-2-0722	Client:	SLR International Corp.
Date Received:	07/14/22	Project:	128.20841.00001, F&BI 207221
Date Collected:	07/13/22	Lab ID:	207221-02 1/1.4
Date Analyzed:	07/16/22	Data File:	071527.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	89	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.10
Chloroethane	<3.7	<1.4
1,1-Dichloroethene	<0.56	<0.14
trans-1,2-Dichloroethene	<0.56	<0.14
1,1-Dichloroethane	<0.57	<0.14
cis-1,2-Dichloroethene	<0.56	<0.14
1,2-Dichloroethane (EDC)	<0.057	<0.014
1,1,1-Trichloroethane	<0.76	<0.14
Trichloroethene	<0.15	<0.028
1,1,2-Trichloroethane	<0.076	<0.014
Tetrachloroethene	<9.5	<1.4

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	AA-1-0722	Client:	SLR International Corp.
Date Received:	07/14/22	Project:	128.20841.00001, F&BI 207221
Date Collected:	07/13/22	Lab ID:	207221-03
Date Analyzed:	07/16/22	Data File:	071528.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	% Recovery:	Lower Limit:	Upper Limit:
4-Bromofluorobenzene	84	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.26	<0.1
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	0.040	0.010
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.11 J	<0.02 J
1,1,2-Trichloroethane	<0.055 J	<0.01 J
Tetrachloroethene	<6.8 J	<1 J

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By Method TO-15

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	128.20841.00001, F&BI 207221
Date Collected:	Not Applicable	Lab ID:	02-1643 MB
Date Analyzed:	07/15/22	Data File:	071513.D
Matrix:	Air	Instrument:	GCMS7
Units:	ug/m3	Operator:	bat

	%	Lower	Upper
Surrogates:	Recovery:	Limit:	Limit:
4-Bromofluorobenzene	82	70	130

Compounds:	Concentration	
	ug/m3	ppbv
Vinyl chloride	<0.19	<0.07
Chloroethane	<2.6	<1
1,1-Dichloroethene	<0.4	<0.1
trans-1,2-Dichloroethene	<0.4	<0.1
1,1-Dichloroethane	<0.4	<0.1
cis-1,2-Dichloroethene	<0.4	<0.1
1,2-Dichloroethane (EDC)	<0.04	<0.01
1,1,1-Trichloroethane	<0.55	<0.1
Trichloroethene	<0.11	<0.02
1,1,2-Trichloroethane	<0.055	<0.01
Tetrachloroethene	<6.8	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/21/22

Date Received: 07/14/22

Project: Woodinville Business Park 128.20841.00001, F&BI 207221

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

Laboratory Code: 207178-03 1/6.9 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 30)
Vinyl chloride	ug/m3	<1.8	<1.8	nm
Chloroethane	ug/m3	<18	<18	nm
1,1-Dichloroethene	ug/m3	<2.7	<2.7	nm
trans-1,2-Dichloroethene	ug/m3	<2.7	<2.7	nm
1,1-Dichloroethane	ug/m3	<2.8	<2.8	nm
cis-1,2-Dichloroethene	ug/m3	<2.7	<2.7	nm
1,2-Dichloroethane (EDC)	ug/m3	<0.28	<0.28	nm
1,1,1-Trichloroethane	ug/m3	<3.8	<3.8	nm
Trichloroethene	ug/m3	<0.74	<0.74	nm
1,1,2-Trichloroethane	ug/m3	<0.38	<0.38	nm
Tetrachloroethene	ug/m3	<47	<47	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Acceptance Criteria
			Recovery LCS	
Vinyl chloride	ug/m3	35	79	70-130
Chloroethane	ug/m3	36	91	70-130
1,1-Dichloroethene	ug/m3	54	90	70-130
trans-1,2-Dichloroethene	ug/m3	54	85	70-130
1,1-Dichloroethane	ug/m3	55	88	70-130
cis-1,2-Dichloroethene	ug/m3	54	84	70-130
1,2-Dichloroethane (EDC)	ug/m3	55	89	70-130
1,1,1-Trichloroethane	ug/m3	74	90	70-130
Trichloroethene	ug/m3	73	98	70-130
1,1,2-Trichloroethane	ug/m3	74	101	70-130
Tetrachloroethene	ug/m3	92	107	70-130

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

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

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

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

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ME 07-19-22

2022  
To Greg Lish

Report To Greg Lish

Company SLR

Address 22115 20<sup>th</sup> Ave SE, Suite 6202

City, State, ZIP Bathell, WA

Phone 475, 402.80

Email glisk@stevenshwy.com

ME 07-19-22

SAMPLERS (signature)

2

PROJECT NAME &amp; ADDRESS

Woodville Business Park

NOTES:

INVOICE TO

TURNAROUND TIME  
standard

X Standard  
= RUSH

Rush charges authorized by:

**SAMPLE DISPOSAL**

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

## SAMPLE INFORMATION

[illegible]

Friedman & Bruya, Inc.



3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COCC\COCTO-15.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Spencer	JCR	7.14.22	1654
Received by: 	Spencer	JCR	7.14.22	1654
Relinquished by:				
Received by:				

## **APPENDIX C**

### **GROUNDWATER SAMPLING FIELD DATA SHEETS**



# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>SML</u>	Well I.D.: <u>MW-2</u>
Project Name: <u>Woodinville West Business Park</u>		Sampled By: <u>SML</u>	Sample I.D.: <u>MW-2-0422</u>
Location: <u>16750 Woodinville-Redmond Road NE, Woodinville, WA</u>		QA Samples: <u>0</u>	

Date Purged: <u>4/12/22</u>	Start (2400hr): <u>1648</u>	End (2400hr): <u>1706</u>
Date Sampled: <u>4/12/22</u>	Sample Time (2400hr): <u>1706</u>	

Casing Diameter: 2" <input checked="" type="checkbox"/> 3" <input type="checkbox"/> 4" <input type="checkbox"/> 5" <input type="checkbox"/> 6" <input type="checkbox"/> 8" <input type="checkbox"/> Other <input type="checkbox"/>
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = <u>22.78</u>	Tubing Volume (gal) = _____
Depth to water (feet) = <u>9.61</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1648</u>	<u>9.3</u>	<u>0.2903</u>	<u>-</u>	<u>3.27</u>	<u>6.97</u>	<u>294.2</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1651</u>	<u>9.4</u>	<u>0.2948</u>	<u>-</u>	<u>1.13</u>	<u>6.90</u>	<u>275.8</u>	<u>clear</u>	<u>clear</u>
<u>0.5</u>	<u>1654</u>	<u>9.7</u>	<u>0.3002</u>	<u>-</u>	<u>0.85</u>	<u>6.79</u>	<u>261.7</u>	<u>clear</u>	<u>clear</u>
<u>0.75</u>	<u>1657</u>	<u>9.8</u>	<u>0.3021</u>	<u>-</u>	<u>0.79</u>	<u>6.76</u>	<u>250.5</u>	<u>clear</u>	<u>clear</u>
<u>1.0</u>	<u>1700</u>	<u>9.8</u>	<u>0.3022</u>	<u>-</u>	<u>0.75</u>	<u>6.74</u>	<u>239.0</u>	<u>clear</u>	<u>clear</u>
<u>1.25</u>	<u>1703</u>	<u>9.9</u>	<u>0.3011</u>	<u>-</u>	<u>0.73</u>	<u>6.74</u>	<u>233.1</u>	<u>clear</u>	<u>clear</u>
<u>1.5</u>	<u>1706</u>	<u>9.8</u>	<u>0.3008</u>	<u>-</u>	<u>0.74</u>	<u>6.74</u>	<u>229.9</u>	<u>clear</u>	<u>clear</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Dedicated <u>tubing</u> Other: _____ Pump Intake Depth: <u>11.6</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL      _____ <input type="checkbox"/> mL amber glass      _____ <input type="checkbox"/> mL amber glass w/ HCL      _____ <input type="checkbox"/> mL HDPE      _____ <input type="checkbox"/> mL HDPE w/ HNO3      _____

Well Integrity: <u>Good</u>	Odor: <u>No</u>
Remarks: <u>N/A</u>	

Signature: <u>[Signature]</u>	Page 1 of 1
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# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.20841.00001 Purged By: SML Well I.D.: MW-3  
 Project Name: Woodinville West Business Park Sampled By: SML Sample I.D.: MW-3-0422  
 Location: 16750 Woodinville-Redmond Road NE, Woodinville, WA QA Samples: 0

Date Purged: 4/12/22 Start (2400hr): 1619 End (2400hr): 1637  
 Date Sampled: 4/12/22 Sample Time (2400hr): 1637

Casing Diameter: 2" X 3"    4"    5"    6"    8"    Other     
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 73.06 Tubing Volume (gal) =             
 Depth to water (feet) = 13.94 Minimum Purge (gal) =             
 Water column height (feet) =            Actual Purge (gal) =           

## FIELD MEASUREMENTS

Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1619</u>	<u>12.9</u>	<u>0.3744</u>	<u>-</u>	<u>2.01</u>	<u>7.01</u>	<u>292.1</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1622</u>	<u>13.8</u>	<u>0.3811</u>	<u>-</u>	<u>1.33</u>	<u>6.82</u>	<u>271.9</u>	<u>clear</u>	<u>clear</u>
<u>0.5</u>	<u>1625</u>	<u>14.0</u>	<u>0.3867</u>	<u>-</u>	<u>1.17</u>	<u>6.74</u>	<u>261.0</u>	<u>clear</u>	<u>clear</u>
<u>0.75</u>	<u>1628</u>	<u>14.1</u>	<u>0.3950</u>	<u>-</u>	<u>0.98</u>	<u>6.71</u>	<u>253.5</u>	<u>clear</u>	<u>clear</u>
<u>1.0</u>	<u>1631</u>	<u>14.1</u>	<u>0.3965</u>	<u>-</u>	<u>0.88</u>	<u>6.69</u>	<u>249.6</u>	<u>clear</u>	<u>clear</u>
<u>1.25</u>	<u>1634</u>	<u>14.2</u>	<u>0.3976</u>	<u>-</u>	<u>0.81</u>	<u>6.68</u>	<u>245.5</u>	<u>clear</u>	<u>clear</u>
<u>1.5</u>	<u>1637</u>	<u>14.2</u>	<u>0.3984</u>	<u>-</u>	<u>0.79</u>	<u>6.67</u>	<u>243.4</u>	<u>clear</u>	<u>clear</u>

## PURGING & SAMPLING EQUIPMENT

   Well Wizard Bladder Pump    Bailer (disposable)  
   Active Extraction Well Pump    Bailer (PVC)  
   Submersible Pump    Bailer (Stainless Steel)  
X Peristaltic Pump X Dedicated tubing  
 Other:             
 Pump Intake Depth: 16.0 (feet)

## SAMPLE VESSELS

   40mL VOA    mL HDPE w/ H2SO4  
5 40mL VOA w/ HCL     
   mL amber glass     
   mL amber glass w/ HCL     
   mL HDPE     
   mL HDPE w/ HNO3   

Well Integrity: Good Odor: NO  
 Remarks: N/A

Signature: Stu hwh

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

[illegible]

SLR International Corp



## LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW-1</u>
Project Name: <u>Woodinville West Business Park</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW-1-0022</u>
Location: <u>Renton, WA</u>		QA Samples: <u>MW-11-1022 (1207)</u>	

Date Purged: <u>10-12-2022</u>	Start (2400hr): <u>1133</u>	End (2400hr): <u>1154</u>
Date Sampled: <u>10-12-2022</u>	Sample Time (2400hr): <u>1154</u>	

Casing Diameter: <u>2" X</u>	<u>3"</u>	<u>4"</u>	<u>5"</u>	<u>6"</u>	<u>8"</u>	Other <u>    </u>
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60) ( )

Total depth (feet) = <u>22.90</u>	Casing Volume (gal) = <u>          </u>
Depth to water (feet) = <u>16.54</u>	Minimum Purge (gal) = <u>          </u>
Water column height (feet) = <u>          </u>	Actual Purge (gal) = <u>          </u>

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1133</u>	<u>16.5</u>	<u>.3148</u>	<u>---</u>	<u>0.55</u>	<u>6.17</u>	<u>42.6</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1136</u>	<u>15.7</u>	<u>.3068</u>	<u>---</u>	<u>0.18</u>	<u>6.38</u>	<u>31.7</u>	<u>clear</u>	<u>clear</u>
<u>0.50</u>	<u>1139</u>	<u>15.7</u>	<u>.2995</u>	<u>---</u>	<u>0.15</u>	<u>6.44</u>	<u>28.7</u>	<u>clear</u>	<u>clear</u>
<u>0.75</u>	<u>1142</u>	<u>15.7</u>	<u>.2967</u>	<u>---</u>	<u>0.15</u>	<u>6.46</u>	<u>27.8</u>	<u>clear</u>	<u>clear</u>
<u>1</u>	<u>1145</u>	<u>15.7</u>	<u>.2945</u>	<u>---</u>	<u>0.10</u>	<u>6.47</u>	<u>27.4</u>	<u>clear</u>	<u>clear</u>
<u>1.25</u>	<u>1148</u>	<u>15.6</u>	<u>.2928</u>	<u>---</u>	<u>0.10</u>	<u>6.47</u>	<u>27.3</u>	<u>clear</u>	<u>clear</u>
<u>1.50</u>	<u>1151</u>	<u>15.6</u>	<u>.2921</u>	<u>---</u>	<u>0.08</u>	<u>6.47</u>	<u>26.2</u>	<u>clear</u>	<u>clear</u>
<u>1.75</u>	<u>1154</u>	<u>15.6</u>	<u>.2921</u>	<u>---</u>	<u>0.08</u>	<u>6.47</u>	<u>26.2</u>	<u>clear</u>	<u>clear</u>


  

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Dedicated Tubing Other: <u>          </u> Pump Intake Depth: <u>18.54</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL <u>          </u> <input type="checkbox"/> mL amber glass <u>          </u> <input type="checkbox"/> mL amber glass w/ HCl <u>          </u> <input type="checkbox"/> mL HDPE <u>          </u> <input type="checkbox"/> mL HDPE w/ HNO3 <u>          </u>

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: <u>          </u>	

Signature: 

Page 1 of 1

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW- 2</u>
Project Name: <u>Woodinville West Business Park</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW- 2 - 1022</u>
Location: <u>Renton, WA</u>		QA Samples: _____	

Date Purged: <u>10-12-2022</u>	Start (2400hr): <u>1221</u>	End (2400hr): <u>1242</u>
Date Sampled: <u>10-12-2022</u>	Sample Time (2400hr): <u>1242</u>	

Casing Diameter: 2" <u>X</u> 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = <u>22.81</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>12.12</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1221</u>	<u>15.0</u>	<u>2824</u>	<u>—</u>	<u>0.21</u>	<u>6.45</u>	<u>28.2</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1224</u>	<u>14.7</u>	<u>2812</u>	<u>—</u>	<u>0.08</u>	<u>6.49</u>	<u>26.1</u>	<u>clear</u>	<u>clear</u>
<u>0.50</u>	<u>1227</u>	<u>14.5</u>	<u>2746</u>	<u>—</u>	<u>0.05</u>	<u>6.50</u>	<u>25.7</u>	<u>clear</u>	<u>clear</u>
<u>0.75</u>	<u>1230</u>	<u>14.4</u>	<u>2653</u>	<u>—</u>	<u>0.05</u>	<u>6.51</u>	<u>25.1</u>	<u>clear</u>	<u>clear</u>
<u>1</u>	<u>1233</u>	<u>14.4</u>	<u>2613</u>	<u>—</u>	<u>0.05</u>	<u>6.51</u>	<u>25.0</u>	<u>clear</u>	<u>clear</u>
<u>1.25</u>	<u>1236</u>	<u>14.3</u>	<u>2509</u>	<u>—</u>	<u>0.05</u>	<u>6.51</u>	<u>25.2</u>	<u>clear</u>	<u>clear</u>
<u>1.50</u>	<u>1239</u>	<u>14.3</u>	<u>2507</u>	<u>—</u>	<u>0.05</u>	<u>6.51</u>	<u>25.0</u>	<u>clear</u>	<u>clear</u>
<u>1.75</u>	<u>1242</u>	<u>14.3</u>	<u>2568</u>	<u>—</u>	<u>0.05</u>	<u>6.51</u>	<u>24.9</u>	<u>clear</u>	<u>clear</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Dedicated Tubing Other: _____ Pump Intake Depth: <u>14.12</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL      _____ <input type="checkbox"/> mL amber glass      _____ <input type="checkbox"/> mL amber glass w/ HCL      _____ <input type="checkbox"/> mL HDPE      _____ <input type="checkbox"/> mL HDPE w/ HNO3      _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: _____	

Signature: [Signature]
Page 1 of \_1\_

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW-3</u>
Project Name: <u>Woodinville West Business Park</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW-3-1022</u>
Location: <u>Renton, WA</u>		QA Samples: _____	

Date Purged: <u>10-12-2022</u>	Start (2400hr): <u>1312</u>	End (2400hr): <u>1333</u>
Date Sampled: <u>10-12-2022</u>	Sample Time (2400hr): <u>1333</u>	

Casing Diameter: 2" <input checked="" type="checkbox"/> 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = <u>23.00</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>16.01</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1312</u>	<u>15.6</u>	<u>3157</u>	<u>—</u>	<u>0.45</u>	<u>6.39</u>	<u>32.0</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1315</u>	<u>15.5</u>	<u>3177</u>	<u>—</u>	<u>0.11</u>	<u>6.41</u>	<u>30.4</u>	<u>clear</u>	<u>clear</u>
<u>0.50</u>	<u>1318</u>	<u>15.4</u>	<u>3207</u>	<u>—</u>	<u>0.07</u>	<u>6.42</u>	<u>30.1</u>	<u>clear</u>	<u>clear</u>
<u>0.75</u>	<u>1321</u>	<u>15.4</u>	<u>3224</u>	<u>—</u>	<u>0.06</u>	<u>6.42</u>	<u>29.9</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1324</u>	<u>15.4</u>	<u>3236</u>	<u>—</u>	<u>0.06</u>	<u>6.42</u>	<u>29.8</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1327</u>	<u>15.4</u>	<u>3249</u>	<u>—</u>	<u>0.06</u>	<u>6.42</u>	<u>29.8</u>	<u>↓</u>	<u>↓</u>
<u>1.50</u>	<u>1330</u>	<u>15.4</u>	<u>3247</u>	<u>—</u>	<u>0.06</u>	<u>6.42</u>	<u>30.0</u>	<u>↓</u>	<u>↓</u>
<u>1.75</u>	<u>1333</u>	<u>15.4</u>	<u>3250</u>	<u>—</u>	<u>0.06</u>	<u>6.42</u>	<u>30.2</u>	<u>↓</u>	<u>↓</u>

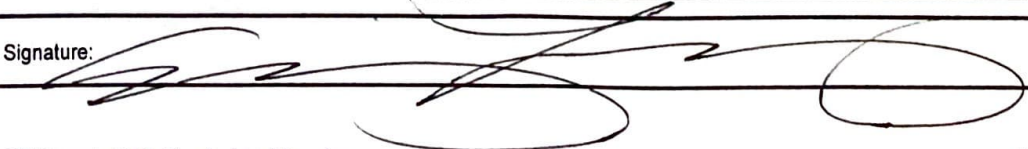
  

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Dedicated Tubing Other: _____ Pump Intake Depth: <u>~18.01</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL      _____ <input type="checkbox"/> mL amber glass      _____ <input type="checkbox"/> mL amber glass w/ HCL      _____ <input type="checkbox"/> mL HDPE      _____ <input type="checkbox"/> mL HDPE w/ HNO3      _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: _____	

Signature: 	Page 1 of 1
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# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW- 1</u>
Project Name: <u>Woodinville West Business Park C</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW- 1 -0123</u>
Location: _____		QA Samples: _____	

Date Purged: <u>01-9-2023</u>	Start (2400hr): <u>1122</u>	End (2400hr): <u>1146</u>
Date Sampled: <u>01-9-2023</u>	Sample Time (2400hr): <u>1146</u>	

Casing Diameter: 2" <u>X</u> 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = <u>22.80</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>13.67</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1122</u>	<u>16.5</u>	<u>4780</u>	<u>0</u>	<u>1.67</u>	<u>6.70</u>	<u>19.4</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1125</u>	<u>16.2</u>	<u>4277</u>	<u>—</u>	<u>1.41</u>	<u>6.60</u>	<u>23.9</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1128</u>	<u>15.9</u>	<u>3933</u>	<u>—</u>	<u>1.21</u>	<u>6.61</u>	<u>23.6</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1131</u>	<u>15.9</u>	<u>3859</u>	<u>—</u>	<u>1.05</u>	<u>6.62</u>	<u>23.4</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1134</u>	<u>15.9</u>	<u>3835</u>	<u>—</u>	<u>0.92</u>	<u>6.61</u>	<u>23.8</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1137</u>	<u>15.9</u>	<u>3824</u>	<u>—</u>	<u>0.85</u>	<u>6.61</u>	<u>23.7</u>	<u>↓</u>	<u>↓</u>
<u>1.50</u>	<u>1140</u>	<u>15.9</u>	<u>3826</u>	<u>—</u>	<u>0.45</u>	<u>6.61</u>	<u>23.8</u>	<u>↓</u>	<u>↓</u>
<u>1.75</u>	<u>1143</u>	<u>15.9</u>	<u>3805</u>	<u>—</u>	<u>0.46</u>	<u>6.61</u>	<u>23.8</u>	<u>↓</u>	<u>↓</u>
<u>2</u>	<u>1146</u>	<u>15.9</u>	<u>3800</u>	<u>—</u>	<u>0.43</u>	<u>6.61</u>	<u>23.7</u>	<u>↓</u>	<u>↓</u>

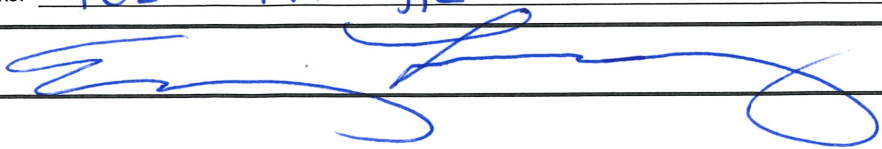
  

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Dedicated <u>tubing</u> Other: _____ Pump Intake Depth: <u>15.67</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> _____ mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL      _____ <input type="checkbox"/> _____ mL amber glass      _____ <input type="checkbox"/> _____ mL amber glass w/ HCL      _____ <input checked="" type="checkbox"/> <u>1 250</u> mL HDPE      _____ <input checked="" type="checkbox"/> <u>1 250</u> mL HDPE w/ HNO3      _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: <u>Fe2+ : + + + mg/L</u>	

Signature: 	Page 1 of 1
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# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW-2</u>
Project Name: <u>Woodinville West Business Park C</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW-2-0123</u>
Location: _____		QA Samples: _____	

Date Purged: <u>01-9-2023</u>	Start (2400hr): <u>1404</u>	End (2400hr): <u>1419</u>
Date Sampled: <u>01-9-2023</u>	Sample Time (2400hr): <u>1419</u>	

Casing Diameter: 2" <u>X</u>	3" _____	4" _____	5" _____	6" _____	8" _____	Other _____
Casing Volume: (gallons per foot)	(0.17)	(0.38)	(0.67)	(1.02)	(1.50)	(2.60)

Total depth (feet) = <u>22.64</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>9.18</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1404</u>	<u>8.4</u>	<u>.3300</u>	<u>—</u>	<u>7.11</u>	<u>7.32</u>	<u>-14.2</u>	<u>clear</u>	<u>slight yellow tint</u>
<u>0.25</u>	<u>1407</u>	<u>8.4</u>	<u>.3135</u>	<u>—</u>	<u>1.02</u>	<u>6.83</u>	<u>11.6</u>	<u> </u>	<u> </u>
<u>0.50</u>	<u>1410</u>	<u>8.4</u>	<u>.3119</u>	<u>—</u>	<u>0.94</u>	<u>6.78</u>	<u>14.3</u>	<u> </u>	<u> </u>
<u>0.75</u>	<u>1413</u>	<u>8.6</u>	<u>.3127</u>	<u>—</u>	<u>0.90</u>	<u>6.76</u>	<u>15.2</u>	<u> </u>	<u> </u>
<u>1</u>	<u>1416</u>	<u>8.6</u>	<u>.3124</u>	<u>—</u>	<u>0.91</u>	<u>6.75</u>	<u>15.7</u>	<u> </u>	<u> </u>
<u>1.25</u>	<u>1419</u>	<u>8.6</u> <u>EH</u>	<u>.3102</u>	<u>—</u>	<u>0.94</u>	<u>6.75</u>	<u>15.8</u>	<u>↓</u>	<u>↓</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input checked="" type="checkbox"/> Dedicated <u>tubing</u> Other: _____ Pump Intake Depth: <u>11.18</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> _____ mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL      _____ <input type="checkbox"/> _____ mL amber glass      _____ <input type="checkbox"/> _____ mL amber glass w/ HCL      _____ <input checked="" type="checkbox"/> 1250 mL HDPE      _____ <input checked="" type="checkbox"/> 1250 mL HDPE w/ HNO3      _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: <u>Fe 2+ : 3-10 mg/L</u>	

Signature: [Signature]
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# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.20841.00001 Purged By: EH Well I.D.: MW-3  
 Project Name: Woodinville West Business Park C Sampled By: EH Sample I.D.: MW-30123  
 Location: \_\_\_\_\_ QA Samples: \_\_\_\_\_

Date Purged: 01-9-2023 Start (2400hr): 1541 End (2400hr): 1556  
 Date Sampled: 01-9-2023 Sample Time (2400hr): 1556

Casing Diameter: 2" ☒ 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 22.95 Casing Volume (gal) = \_\_\_\_\_  
 Depth to water (feet) = 13.50 Minimum Purge (gal) = \_\_\_\_\_  
 Water column height (feet) = \_\_\_\_\_ Actual Purge (gal) = \_\_\_\_\_

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1541</u>	<u>12.2</u>	<u>0.3788</u>	<u>—</u>	<u>2.43</u>	<u>6.89</u>	<u>8.1</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1544</u>	<u>14.2</u>	<u>0.3089</u>	<u>—</u>	<u>0.19</u>	<u>6.48</u>	<u>30.3</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1547</u>	<u>14.2</u>	<u>0.2950</u>	<u>—</u>	<u>0.12</u>	<u>6.44</u>	<u>32.5</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1550</u>	<u>14.3</u>	<u>0.2927</u>	<u>—</u>	<u>0.09</u>	<u>6.42</u>	<u>33.1</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1553</u>	<u>14.3</u>	<u>0.2911</u>	<u>—</u>	<u>0.08</u>	<u>6.42</u>	<u>33.3</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1556</u>	<u>14.3</u>	<u>0.2912</u>	<u>—</u>	<u>0.06</u>	<u>6.42</u>	<u>33.7</u>	<u>↓</u>	<u>↓</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump	<input type="checkbox"/> 40mL VOA
<input type="checkbox"/> Active Extraction Well Pump	<input checked="" type="checkbox"/> 40mL VOA w/ HCL
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> mL HDPE w/ H2SO4
<input checked="" type="checkbox"/> Peristaltic Pump	<input type="checkbox"/> mL amber glass
<input checked="" type="checkbox"/> Dedicated tubing	<input type="checkbox"/> mL amber glass w/ HCl
Other: _____	<input type="checkbox"/> mL HDPE
Pump Intake Depth: <u>15.50</u> (feet)	<input type="checkbox"/> mL HDPE w/ HNO3

Well Integrity: good Odor: none  
 Remarks: \_\_\_\_\_

Signature: [Signature] Page 1 of 1

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.20841.00001 Purged By: EH Well I.D.: MW-4  
 Project Name: Woodinville West Business Park C Sampled By: EH Sample I.D.: MW-4-0123  
 Location: \_\_\_\_\_ QA Samples: \_\_\_\_\_

Date Purged: 01-9-2023 Start (2400hr): 1221 End (2400hr): 1236  
 Date Sampled: 01-9-2023 Sample Time (2400hr): 1236

Casing Diameter: 2" X 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 22.64 Casing Volume (gal) = \_\_\_\_\_  
 Depth to water (feet) = 13.52 Minimum Purge (gal) = \_\_\_\_\_  
 Water column height (feet) = \_\_\_\_\_ Actual Purge (gal) = \_\_\_\_\_

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1221</u>	<u>15.7</u>	<u>0.605</u>	<u>—</u>	<u>0.97</u>	<u>6.37</u>	<u>37.6</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1224</u>	<u>15.8</u>	<u>0.625</u>	<u>—</u>	<u>0.24</u>	<u>6.34</u>	<u>38.5</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1227</u>	<u>15.8</u>	<u>0.627</u>	<u>—</u>	<u>0.17</u>	<u>6.34</u>	<u>38.0</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1230</u>	<u>15.7</u>	<u>0.627</u>	<u>—</u>	<u>0.13</u>	<u>6.35</u>	<u>37.8</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1233</u>	<u>15.7</u>	<u>0.627</u>	<u>—</u>	<u>0.11</u>	<u>6.35</u>	<u>37.7</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1236</u>	<u>15.7</u>	<u>0.626</u>	<u>—</u>	<u>0.10</u>	<u>6.35</u>	<u>37.6</u>	<u>↓</u>	<u>↓</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: _____ Pump Intake Depth: <u>15.52</u> (feet)	<input type="checkbox"/> 40mL VOA <input checked="" type="checkbox"/> 40mL VOA w/ HCL <input type="checkbox"/> mL amber glass <input type="checkbox"/> mL amber glass w/ HCL <input checked="" type="checkbox"/> 1250 mL HDPE <input checked="" type="checkbox"/> 1250 mL HDPE w/ HNO3

Well Integrity: good Odor: none  
 Remarks: Fe 2+ : + + + mg/L new tubing

Signature: [Signature] Page 1 of 1

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>		Purged By: <u>EH</u>	Well I.D.: <u>MW-5</u>
Project Name: <u>Woodinville West Business Park C</u>		Sampled By: <u>EH</u>	Sample I.D.: <u>MW-S-0123</u>
Location: _____		QA Samples: _____	

Date Purged: <u>01-10-2023</u>	Start (2400hr): <u>1042</u>	End (2400hr): <u>1103</u>
Date Sampled: <u>01-10-2023</u>	Sample Time (2400hr): <u>1103</u>	

Casing Diameter:    2" X       3" \_\_\_\_\_    4" \_\_\_\_\_    5" \_\_\_\_\_    6" \_\_\_\_\_    8" \_\_\_\_\_    Other \_\_\_\_\_

Casing Volume: (gallons per foot)    ( 0.17 )    ( 0.38 )    ( 0.67 )    ( 1.02 )    ( 1.50 )    ( 2.60 )    (     )

Total depth (feet) = <u>22.38</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>13.56</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

### FIELD MEASUREMENTS

Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1042</u>	<u>16.1</u>	<u>.3561</u>	<u>—</u>	<u>1.54</u>	<u>6.77</u>	<u>16.1</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1045</u>	<u>15.9</u>	<u>.3486</u>	<u>—</u>	<u>0.28</u>	<u>6.50</u>	<u>29.4</u>		
<u>0.50</u>	<u>1048</u>	<u>15.7</u>	<u>.3406</u>	<u>—</u>	<u>0.16</u>	<u>6.48</u>	<u>30.7</u>		
<u>0.75</u>	<u>1051</u>	<u>15.5</u>	<u>.3380</u>	<u>—</u>	<u>0.12</u>	<u>6.49</u>	<u>30.0</u>		
<u>1</u>	<u>1054</u>	<u>15.4</u>	<u>.3433</u>	<u>—</u>	<u>0.10</u>	<u>6.50</u>	<u>29.7</u>		
<u>1.25</u>	<u>1057</u>	<u>15.4</u>	<u>.3348</u>	<u>—</u>	<u>0.08</u>	<u>6.50</u>	<u>29.4</u>		
<u>1.50</u>	<u>1100</u>	<u>15.4</u>	<u>.3304</u>	<u>—</u>	<u>0.07</u>	<u>6.50</u>	<u>29.4</u>		
<u>1.75</u>	<u>1103</u>	<u>15.4</u>	<u>.3285</u>	<u>—</u>	<u>0.06</u>	<u>6.50</u>	<u>29.3</u>	↓	↓

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Dedicated _____  Other: _____ Pump Intake Depth: <u>15.56</u> (feet)	<input type="checkbox"/> 40mL VOA <input type="checkbox"/> mL HDPE w/ H2SO4 <u>5</u> <input checked="" type="checkbox"/> 40mL VOA w/ HCL      _____ <input type="checkbox"/> _____ mL amber glass      _____ <input type="checkbox"/> _____ mL amber glass w/ HCl      _____ <input type="checkbox"/> _____ mL HDPE      _____ <input type="checkbox"/> _____ mL HDPE w/ HNO3      _____

Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: <u>new tubing</u>	

Signature: \_\_\_\_\_

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# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. <u>101.20841.00001</u>	Purged By: <u>EH</u>	Well I.D.: <u>MW- <u>6</u></u>
Project Name: <u>Woodinville West Business Park C</u>	Sampled By: <u>EH</u>	Sample I.D.: <u>MW- <u>6</u>-0123</u>
Location: _____		QA Samples: _____

Date Purged: <u>01-10-2023</u>	Start (2400hr): <u>1126</u>	End (2400hr): <u>1144</u>
Date Sampled: <u>01-10-2023</u>	Sample Time (2400hr): <u>1144</u>	

Casing Diameter: 2" <u>X</u> 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = <u>22.44</u>	Casing Volume (gal) = _____
Depth to water (feet) = <u>13.47</u>	Minimum Purge (gal) = _____
Water column height (feet) = _____	Actual Purge (gal) = _____

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1126</u>	<u>16.3</u>	<u>.4028</u>	<u>—</u>	<u>1.45</u>	<u>6.59</u>	<u>24.7</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1129</u>	<u>16.0</u>	<u>.3997</u>	<u>—</u>	<u>0.21</u>	<u>6.65</u>	<u>21.4</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1132</u>	<u>15.9</u>	<u>.3981</u>	<u>—</u>	<u>0.15</u>	<u>6.67</u>	<u>20.6</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1135</u>	<u>15.9</u>	<u>.3960</u>	<u>—</u>	<u>0.13</u>	<u>6.67</u>	<u>20.3</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1138</u>	<u>15.8</u>	<u>.3912</u>	<u>—</u>	<u>0.13</u>	<u>6.68</u>	<u>20.0</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1141</u>	<u>15.8</u>	<u>.3852</u>	<u>—</u>	<u>0.13</u>	<u>6.68</u>	<u>20.0</u>	<u>↓</u>	<u>↓</u>
<u>1.50</u>	<u>1144</u>	<u>15.8</u>	<u>.3802</u>	<u>—</u>	<u>0.12</u>	<u>6.68</u>	<u>20.2</u>	<u>↓</u>	<u>↓</u>

<b>PURGING &amp; SAMPLING EQUIPMENT</b> <input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Bailer (disposable) <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Bailer (PVC) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Bailer (Stainless Steel) <input checked="" type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Dedicated _____ Other: _____ Pump Intake Depth: <u>15.47</u> (feet)	<b>SAMPLE VESSELS</b> <input type="checkbox"/> 40mL VOA <input type="checkbox"/> _____ mL HDPE w/ H2SO4 <input checked="" type="checkbox"/> 40mL VOA w/ HCL    _____ <input type="checkbox"/> _____ mL amber glass    _____ <input type="checkbox"/> _____ mL amber glass w/ HCL    _____ <input type="checkbox"/> _____ mL HDPE    _____ <input type="checkbox"/> _____ mL HDPE w/ HNO3    _____
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Well Integrity: <u>good</u>	Odor: <u>none</u>
Remarks: <u>new tubing</u>	

Signature: <u>[Signature]</u>	Page 1 of 1
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# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.20841.00001 Purged By: EH Well I.D.: MW-7  
Project Name: Woodinville West Business Park C Sampled By: EH Sample I.D.: MW-7-0123  
Location: \_\_\_\_\_ QA Samples: \_\_\_\_\_

Date Purged: 01-10-2023 Start (2400hr): 1205 End (2400hr): 1217  
Date Sampled: 01-10-2023 Sample Time (2400hr): 1217

Casing Diameter: 2" X 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 23.04 Casing Volume (gal) = \_\_\_\_\_  
Depth to water (feet) = 10.22 Minimum Purge (gal) = \_\_\_\_\_  
Water column height (feet) = \_\_\_\_\_ Actual Purge (gal) = \_\_\_\_\_

## FIELD MEASUREMENTS

Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1205</u>	<u>12.4</u>	<u>.3795</u>	<u>—</u>	<u>1.70</u>	<u>6.61</u>	<u>24.6</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1208</u>	<u>12.6</u>	<u>.3927</u>	<u>—</u>	<u>0.20</u>	<u>6.53</u>	<u>27.5</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1211</u>	<u>12.7</u>	<u>.3977</u>	<u>—</u>	<u>0.15</u>	<u>6.54</u>	<u>27.1</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1214</u>	<u>12.7</u>	<u>.3994</u>	<u>—</u>	<u>0.13</u>	<u>6.55</u>	<u>27.0</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1217</u>	<u>12.7</u>	<u>.3998</u>	<u>—</u>	<u>0.13</u>	<u>6.55</u>	<u>27.0</u>	<u>↓</u>	<u>↓</u>

## PURGING & SAMPLING EQUIPMENT

☐ Well Wizard Bladder Pump ☐ Bailer (disposable)  
☐ Active Extraction Well Pump ☐ Bailer (PVC)  
☐ Submersible Pump ☐ Bailer (Stainless Steel)  
☒ Peristaltic Pump ☐ Dedicated \_\_\_\_\_  
Other: \_\_\_\_\_  
Pump Intake Depth: 12.22 (feet)

## SAMPLE VESSELS

☐ 40mL VOA ☐ \_\_\_\_\_ mL HDPE w/ H2SO4  
☒ 40mL VOA w/ HCL ☐ \_\_\_\_\_  
☐ \_\_\_\_\_ mL amber glass ☐ \_\_\_\_\_  
☐ \_\_\_\_\_ mL amber glass w/ HCl ☐ \_\_\_\_\_  
☐ \_\_\_\_\_ mL HDPE ☐ \_\_\_\_\_  
☐ \_\_\_\_\_ mL HDPE w/ HNO3 ☐ \_\_\_\_\_

Well Integrity: good Odor: none  
Remarks: new tubing

Signature: \_\_\_\_\_

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.20841.00001 Purged By: EH Well I.D.: MW-8  
 Project Name: Woodinville West Business Park C Sampled By: EH Sample I.D.: MW-8-0123  
 Location: \_\_\_\_\_ QA Samples: \_\_\_\_\_

Date Purged: 01-9-2023 Start (2400hr): 1501 End (2400hr): 1519  
 Date Sampled: 01-9-2023 Sample Time (2400hr): 1519

Casing Diameter: 2" ☒ 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 23.00 Casing Volume (gal) = \_\_\_\_\_  
 Depth to water (feet) = 8.70 Minimum Purge (gal) = \_\_\_\_\_  
 Water column height (feet) = \_\_\_\_\_ Actual Purge (gal) = \_\_\_\_\_

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1501</u>	<u>11.3</u>	<u>1.357</u>	<u>—</u>	<u>3.24</u>	<u>6.37</u>	<u>36.3</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1504</u>	<u>11.9</u>	<u>1.635</u>	<u>—</u>	<u>0.47</u>	<u>6.20</u>	<u>45.6</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1507</u>	<u>12.0</u>	<u>1.690</u>	<u>—</u>	<u>0.34</u>	<u>6.19</u>	<u>45.6</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1510</u>	<u>12.1</u>	<u>1.630</u>	<u>—</u>	<u>0.30</u>	<u>6.21</u>	<u>44.7</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1513</u>	<u>12.3</u>	<u>1.650</u>	<u>—</u>	<u>0.27</u>	<u>6.22</u>	<u>44.5</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1516</u>	<u>12.3</u>	<u>1.675</u>	<u>—</u>	<u>0.28</u>	<u>6.22</u>	<u>44.4</u>	<u>↓</u>	<u>↓</u>
<u>1.50</u>	<u>1519</u>	<u>12.3</u>	<u>1.673</u>	<u>—</u>	<u>0.26</u>	<u>6.22</u>	<u>44.3</u>	<u>↓</u>	<u>↓</u>

PURGING & SAMPLING EQUIPMENT	SAMPLE VESSELS
<input type="checkbox"/> Well Wizard Bladder Pump <input type="checkbox"/> Active Extraction Well Pump <input type="checkbox"/> Submersible Pump <input checked="" type="checkbox"/> Peristaltic Pump Other: _____ Pump Intake Depth: <u>10.7</u> (feet)	<input type="checkbox"/> 40mL VOA <input checked="" type="checkbox"/> 40mL VOA w/ HCL <input type="checkbox"/> mL amber glass <input type="checkbox"/> mL amber glass w/ HCL <input type="checkbox"/> mL HDPE <input type="checkbox"/> mL HDPE w/ HNO3 <input type="checkbox"/> mL HDPE w/ H2SO4

Well Integrity: good Odor: none  
 Remarks: new tubing

Signature: \_\_\_\_\_ Page 1 of 1

# LOW-FLOW GROUNDWATER SAMPLING FIELD DATA SHEET

Project No. 101.20841.00001 Purged By: EH Well I.D.: MW-9  
 Project Name: Woodinville West Business Park C Sampled By: EH Sample I.D.: MW-9-0123  
 Location: \_\_\_\_\_ QA Samples: \_\_\_\_\_

Date Purged: 01-9-2023 Start (2400hr): 1300 End (2400hr): 1327  
 Date Sampled: 01-9-2023 Sample Time (2400hr): 1337

Casing Diameter: 2" X 3" \_\_\_\_\_ 4" \_\_\_\_\_ 5" \_\_\_\_\_ 6" \_\_\_\_\_ 8" \_\_\_\_\_ Other \_\_\_\_\_  
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ( )

Total depth (feet) = 22.00 Casing Volume (gal) = \_\_\_\_\_  
 Depth to water (feet) = 9.30 Minimum Purge (gal) = \_\_\_\_\_  
 Water column height (feet) = \_\_\_\_\_ Actual Purge (gal) = \_\_\_\_\_

FIELD MEASUREMENTS									
Volume (Gal)	Time (2400hr)	Temp. (degrees C)	Conductivity (mS/cm)	TDS (g/L)	DO (mg/L)	pH (units)	ORP (mV)	Turbidity (Visual)	Color (Visual)
<u>0</u>	<u>1300</u>	<u>11.8</u>	<u>0.611</u>	<u>—</u>	<u>2.73</u>	<u>6.72</u>	<u>18.0</u>	<u>clear</u>	<u>clear</u>
<u>0.25</u>	<u>1309</u>	<u>12.7</u>	<u>0.624</u>	<u>—</u>	<u>1.00</u>	<u>6.63</u>	<u>22.5</u>	<u>↓</u>	<u>↓</u>
<u>0.50</u>	<u>1312</u>	<u>12.7</u>	<u>0.665</u>	<u>—</u>	<u>0.88</u>	<u>6.65</u>	<u>21.6</u>	<u>↓</u>	<u>↓</u>
<u>0.75</u>	<u>1315</u>	<u>12.8</u>	<u>0.619</u>	<u>—</u>	<u>0.77</u>	<u>6.65</u>	<u>21.6</u>	<u>↓</u>	<u>↓</u>
<u>1</u>	<u>1318</u>	<u>12.8</u>	<u>0.616</u>	<u>—</u>	<u>0.71</u>	<u>6.63</u>	<u>22.6</u>	<u>↓</u>	<u>↓</u>
<u>1.25</u>	<u>1321</u>	<u>12.8</u>	<u>0.615</u>	<u>—</u>	<u>0.68</u>	<u>6.63</u>	<u>22.0</u>	<u>↓</u>	<u>↓</u>
<u>1.50</u>	<u>1324</u>	<u>13.0</u>	<u>0.604</u>	<u>—</u>	<u>0.60</u>	<u>6.63</u>	<u>22.4</u>	<u>↓</u>	<u>↓</u>
<u>1.75</u>	<u>1327</u>	<u>12.8</u>	<u>0.607</u>	<u>—</u>	<u>0.60</u>	<u>6.63</u>	<u>22.12</u>	<u>↓</u>	<u>↓</u>

PURGING & SAMPLING EQUIPMENT			SAMPLE VESSELS	
<input type="checkbox"/> Well Wizard Bladder Pump	<input type="checkbox"/> Bailer (disposable)	<input type="checkbox"/> 40mL VOA	<input type="checkbox"/> _____ mL HDPE w/ H2SO4	
<input type="checkbox"/> Active Extraction Well Pump	<input type="checkbox"/> Bailer (PVC)	<u>8</u> 40mL VOA w/ HCL	_____	
<input type="checkbox"/> Submersible Pump	<input type="checkbox"/> Bailer (Stainless Steel)	_____ mL amber glass	_____	
<u>X</u> Peristaltic Pump	<input type="checkbox"/> Dedicated _____	_____ mL amber glass w/ HCL	_____	
Other: _____		<u>1250</u> mL HDPE	_____	
Pump Intake Depth: <u>11.3</u> (feet)		<u>1250</u> mL HDPE w/ HNO3	_____	

Well Integrity: good Odor: none  
 Remarks: new tubing Fe 2+ : +++ mg/L

Signature: \_\_\_\_\_ Page 1 of 1