CONVERSE CONSULTANTS



2nd Quarter 2023 Remedial Action Operation and Monitoring Report

Dryclean US
Canyon Park Place Shopping Center
22833 Bothell Everett Highway
Bothell, Washington 98021

Converse Project No. 17-42-200-07 Cleanup Site ID No.: 1629 Facility Site ID No.: 5125580 September 14, 2023

Prepared For:

DS Canyon Park, LP 3501 Del Paso Road Sacramento, California 95835

Prepared By:

Converse Consultants 3176 Pullman Street, Suite 108 Costa Mesa, California 92626 September 14, 2023

Mr. Henry Avila DS Canyon Park, LP 3501 Del Paso Road Sacramento, California 95835

Subject: REMEDIAL ACTION OPERATION AND MONITORING (O&M) REPORT

2023, 2nd Quarter

Dryclean US - Canyon Park Place Shopping Center

22833 Bothell Everett Highway Bothell, Washington 98021

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Mr. Avila:

Converse Consultants (Converse) is pleased to submit the attached Remedial Action Operation and Monitoring (O&M) Report that summarizes the operation and monitoring activities conducted at the Canyon Park Place Shopping Center (Site) for the current reporting period.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact Michael Van Fleet at (909) 796-0544 or Norman Eke at (626) 930-1260.

CONVERSE CONSULTANTS

Michael Van Fleet, PG

Senior Geologist

Dist: 1/Addressee

1/Washington State Department of Ecology

Norman Eke Managing Officer

rsed Ge

Michael A. Van Fleet

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1.0 INTRODUCTION

This 2nd Quarter 2023 Remedial Action Operation and Monitoring (O&M) Report has been prepared by Converse Consultants (Converse), on behalf of DS Canyon Park, L.P. (Client), for the remedial activities conducted relative to the Dryclean US facility at 22833 Bothell Everett Highway, within the Canyon Park Place Shopping Center (Site). The location of the Site is shown on **Figure 1**, Site Vicinity. Details of the Site layout are shown on **Figure 2**, Site Plan.

In 2019 the Site was enrolled in the Washington State Department of Ecology (Ecology) Voluntary Cleanup Program (VCP). The Site is identified as Facility No. 5125580, and VCP Project No. NW3229. All cleanup activities discussed herein have been conducted under the general oversight of Ecology, and in accordance with the Remedial Action Workplan (RAW), prepared by Converse and dated April 20, 2020, which was approved by Ecology in a letter dated September 23, 2020.

1.1 BACKGROUND

A review of historic records showed that the Canyon Park Place Shopping Center was developed in 1992. The shopping center has several retail tenants including Dryclean-US, QFC grocery store, Bartell Drugs, Baskin Robbins, AT&T, and the Recology Store. Commercial development exists east, west, and north of the shopping center. A residential development exists to the south.

Dryclean-US has been utilized as a dry-cleaning facility since the shopping center was constructed in 1992. A tetrachloroethene (PCE) based cleaning machine is believed to have been used onsite from 1992 until sometime between 2011 and 2017. The Site is currently operating a Union HL840 machine that uses a hydrocarbon-based solvent (Green Earth).

Previous investigations at the Site have identified elevated concentrations of chlorinated volatile organic compounds (CVOCs) in shallow subsurface soil gas and groundwater in the vicinity of the dry cleaning facility that exceed Model Toxics Control Act (MTCA) Method B and A screening levels for soil vapor and groundwater, respectively.

Several environmental assessments have been conducted at the Site by various consultants beginning in 2005, and have included the collection and analysis of soil, soil vapor, groundwater, and indoor air samples. Remedial activities have also previously been completed at the Site. Locations of current and prior sample points and wells are presented on **Figure 3**, Well and Sample Locations.

Two (2) separate remedial excavation events have occurred at the Site (one inside the dry-cleaning facility and one behind the dry-cleaning facility) to remove PCE-impacted soil (October 2007 and September 2009). A total of 70 cubic yards of soil have been

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excavated and disposed of at off-site facilities, but residual concentrations of PCE in soil samples in excess of the Ecology screening level of 50 micrograms per kilogram (ug/kg) were reported to have been left in place. Impacts on groundwater were attempted to be remediated through the application of peroxide (November 2009), but these efforts were determined to not have been effective. Ecology has not yet issued a No Further Action (NFA) letter for the Site relative to soil or groundwater contamination.

A total of three (3) monitoring wells (MW-1 through MW-3) have been constructed and currently exist at the site, and grab samples of groundwater have been collected from various boring locations at different times. Groundwater has generally been encountered at depths of approximately 4 feet to 8 feet below ground surface (bgs), and the general direction of flow regionally is understood to be towards the north. The initial water-bearing zone consists of silty sand with gravel that extends to an approximate depth of 12 feet bgs. At 12 feet bgs the lithology was reported to change to clayey silt that extended to at least 20 feet bgs, and these sediments are considered to be a non-water-bearing confining layer, that has likely prevented further downward migration of contaminants.

The analytical results of prior assessments have indicated that groundwater behind the dry cleaner facility is impacted with PCE at concentrations greater than the screening level of 5 micrograms per liter (ug/L) with a maximum reported concentration of 56 ug/L. Since 2005 no concentrations of PCE have been detected above the screening level in samples collected down-gradient (in front) of the dry cleaners. The extent of the groundwater impacted with PCE in excess of the screening level prior to beginning remedial activities was therefore believed to be limited to an approximate radius of 100 to 200 feet centered on the location of the dry-cleaning machine.

Several assessments have been completed at the Site since the last remedial activities in 2009, including a remedial pilot study. The results of these assessments are discussed in detail in the Pilot Study Report prepared by Moore Twining Associates (MTA), dated July 5, 2017. Based on the results of these prior assessments, it appears that a potential risk to the health of Site occupants exists based on the potential for concentrations of VOCs beneath the Site to migrate up through the building slab and accumulate in the indoor air where they could be inhaled (vapor intrusion). Concentrations of PCE, trichloroethylene (TCE), chloroform, and dichlorodifluoromethane (Freon 12) have been reported at concentrations in excess of their respective MTCA Method B screening levels for sub-slab vapor and/or deep soil vapor.

Indoor air samples collected in 2011 from the cleaners and other nearby suites were analyzed for VOCs, and maximum reported concentrations of benzene, chloroform, PCE and TCE (1.388, 2.649, 1.162, and 0.271 ug/m³, respectively) were in excess of their MTCA Method B screening levels at that time (0.32, 0.11, 0.42, and 0.1 ug/m³, respectively). It was noted that the measured indoor air concentrations of each of these compounds were below the OSHA permissible exposure limits (PELs) for workers. Although the measured indoor air concentrations of all of these compounds were above their MTCA values, it was concluded that no adverse effects to workers were expected

since most of the concentrations were comparable to ambient air concentrations in urban areas. Converse notes that in 2015 the Method B screening levels for PCE and TCE were revised and that the maximum concentrations of these compounds reported in 2011 are less than the current screening levels of 9.6 and 0.33 ug/m³, respectively.

A Feasibility Study, dated April 9, 2012, was prepared by EMR Incorporated (EMR). In the Feasibility Study, EMR concluded that soil vapor extraction and air sparging (SVE/AS) along with monitored natural attenuation appeared to be the most promising remedial alternative of the remedial options that were evaluated to address VOC impacts to the soil vapor and groundwater.

MTA prepared and implemented a SVE/AS Pilot Test Workplan, and the results of that test were presented in a Pilot Study Report dated July 5, 2017. The following information was presented in the Pilot Study Report:

- Two (2) SVE pilot study events were conducted at the Site. The June 2016 pilot study event was conducted to evaluate soil vapor extraction in native soil; the October 2016 pilot study event was conducted to evaluate vapor extraction from the sub-slab engineered fill below the dry-cleaning tenant suite and the adjacent tenant suites. During a portion of the June 2016 pilot study event, air sparging (AS) was also conducted to evaluate it as a possible option to remediate groundwater.
- Based on pilot study results, it appears that sub-slab vapor extraction successfully
 mobilized and captured vapor-phase PCE in sub-slab engineered fill below the
 building at the Site. Based on data collected and observations made during the
 pilot tests, sub-slab vapor extraction appears to be feasible for the mitigation and
 control of the observed elevated PCE concentrations in sub-slab and soil vapor at
 the Site.
- The horizontal sub-slab vapor radius of influence for the area below the dry cleaners and tenant suites west of the dry cleaners is estimated to be 65 feet. Shallow native soils (depths greater than 2 feet bgs) appear to limit the horizontal and vertical extent of vapor extraction. It is assumed that the vertical radius of influence using sub-slab vapor extraction points would be approximately 4 feet bgs.
- The horizontal radius of influence from extraction wells in native soil below the Site appears to have been less than 20 feet.
- A possible footing between the dry-cleaning tenant space and the QFC tenant space may act as a barrier between the sub-slab areas.

 It was recommended that remedial action be implemented at this Site utilizing SVE and AS technologies.

Converse reviewed available documents and determined that further assessment appeared warranted before proceeding with remedial activities. Converse prepared a Workplan dated May 2, 2019 with the objective of delineating the lateral extents of PCE impacts in sub-slab and deeper soil vapor so that the remedial system could be appropriately designed.

The results of this supplemental assessment were presented in a Supplemental Assessment Report dated January 31, 2020. A summary of the results is provided below. The Washington State Department of Ecology MTCA Method B Cleanup Levels were used to evaluate the reported concentrations. Cumulative analytical results from all prior Site assessment activities for indoor/outdoor air, sub-slab soil vapor, soil vapor, and groundwater samples are summarized on **Tables 1, 2, 3** and **4**, respectively. Based on analytical results, the following conclusions were made:

- PCE and TCE were reported at concentrations above their respective Ecology screening levels in the air sample from Dryclean-US. Additionally, the indoor air sample from Recology was reported to have TCE at a concentration that exceeded the Method B screening level but was less than the Method C (commercial / industrial) screening level. The presence of these compounds in these indoor air samples are suspected to potentially be related to the intrusion of subsurface vapors.
- Benzene and carbon-tetrachloride were reported at concentrations above their respective Ecology screening levels in all five (5) indoor/outdoor air samples. The presence of these analytes in both the indoor and outdoor samples at similar magnitude concentrations suggests that these analytes may be related to regional background levels rather than from vapor intrusion.
- Sub-Slab soil vapor concentration for TCE (12.3 ug/m³) and benzene (40.1 ug/m³) below the Dryclean-US tenant space (VMP-16) exceeded their respective Ecology screening levels of 12 ug/m³ and 11 ug/m³. Also, the sub-slab concentration of PCE (811 ug/m³) at Recology (VMP-15), and chloroform (4.69 ug/m³) at Bartell Drugs (VMP-13) also exceeded their respective Ecology screening levels of 320 and 3.6 ug/m³. All other reported VOC concentrations in sub-slab samples were below their respective Ecology screening levels.
- Deep soil vapor concentrations for TCE of 39.8 and 118 ug/m³ at Dryclean-US (VMP-23D) and Recology (VMP-25D), respectively, exceeded the Ecology screening level of 37 ug/m³. In addition, soil vapor concentrations for benzene of 52.3 and 77.2 ug/m³ at Recology (VMP-25D) and the exterior location VMP-24D, respectively, also exceeded the Ecology Cleanup level of 32 ug/m³. Vinyl chloride,

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reported at 91.5 ug/m³ in sample VMP-25D from Recology, was the only other VOC detected in soil vapor samples at a concentration in excess of their Ecology screening levels (28 ug/m³ for vinyl chloride).

Based on the results of previous assessments conducted at the Site, Converse prepared a Remedial Action Workplan (RAW), dated April 20, 2020, for the implementation of soil vapor extraction (SVE) and air sparging (AS) remedial technologies to remediate concentrations of tetrachloroethene (PCE) and other chlorinated volatile organic compounds (CVOCs) in sub-slab and shallow soil vapors, and groundwater at the Site.

1.2 REMEDIATION OBJECTIVES

Data obtained during previous Site investigations indicated that VOCs are present in shallow subsurface soil gas and groundwater in the vicinity of the dry-cleaning facility at concentrations that exceed MTCA Method B or A screening levels. The objective of the remedial activities is to reduce concentrations of the chlorinated VOCs (CVOCs) beneath the Site that are potentially related to dry cleaning activities, and to ultimately receive unconditional case closure from Ecology.

To achieve this objective, SVE and AS technologies are proposed to be used. One (1) AS well will be employed to transport concentrations of VOCs in the groundwater to the shallow soil vapor. Impacted vapors will be extracted from a total of eight (8) SVE wells installed at the Site and treated using a granular activated carbon (GAC) system. The effectiveness of the remedial activities will be measured through monitoring and sampling of sub-slab and soil vapor monitoring probes and groundwater monitoring wells.

Cleanup at this Site will be implemented under the MTCA regulations, Chapter 173-340 Washington Administrative Code (WAC). MTCA cleanup levels are concentrations of hazardous substances in the environment that are considered sufficiently "protective of human health and the environment". Data obtained during previous investigations indicate that PCE and TCE are the VOCs of primary concern. Other CVOCs that have historically been detected in samples at concentrations in excess of their MTCA cleanup levels which may potentially be associated with releases from drycleaning activities include vinyl chloride and chloroform. Although benzene, and Freon 12 have previously been detected in a limited number of samples at concentrations in excess of Method B screening levels, they have all been less than Method C screening levels, and they are not considered to be chemicals of concern (COCs) related to onsite releases from drycleaning activities.

The MTCA cleanup levels will be used to evaluate the effectiveness of the remediation activities with regard to the identified COCs. For sub-slab and soil vapor samples the MTCA Method B screening levels will be used, and for groundwater the MTCA Method A screening levels be used (Method B level to be used for chloroform since there is not a Method A value). The current Cleanup Goals (CGs) are presented in the table below.

сос	Sub-Slab Soil Vapor Cleanup	Soil Vapor Cleanup Levels	Groundwater Cleanup Levels (ug/L)			
	Levels (ug/m³)	(ug/m³)	Drinking Water	Vapor Intrusion		
Tetrachloroethene (PCE)	320	960	5	24		
Trichloroethene (TCE)	11	33	4	1.4		
Vinyl Chloride	9.5	28	0.29	0.35		
Chloroform	3.6	11	14	1.2		
Benzene	11	32	5	2.4		

All vapor concentrations in units of micrograms per cubic meter (ug/m³), and water concentration in units of micrograms per liter (ug/L)

1.3 SVE EQUIPMENT AND PROCESS DESCRIPTION

Converse installed a total of four (4), horizontal soil vapor extraction (HSVE) wells to address sub-slab VOCs, and four (4) vertical SVE wells to address the VOCs in shallow soil vapor. The locations of the new HSVE and SVE wells are shown on **Figure 3**. It is noted that SVE wells previously installed by others (SVE-1 through SVE-3) are not currently being utilized.

Sub-Slab SVE Wells

Four (4) horizontal sub-slab wells, HSVE-1, HSVE-2, HSVE-3, and HSVE-4 were installed in the rear of the Dry-clean USA, Recology, Baskin Robins, and QFC suites. The horizontal wells were constructed in accordance with the methods outlined in the RAW. Each of the well casing extend approximately 2 feet beyond the rear wall of the suites, and are located approximately 6-inches below the bottom of the floor slab.

All four (4) sub-slab horizontal wells were connected into a single above-ground manifold constructed of 2-inch diameter SCH 80 PVC pipe that was stubbed at the system compound.

Shallow Soil Vapor SVE Wells

Four (4) shallow soil vapor SVE wells were installed at the Site. These four (4) wells (SVE-4 through SVE-7) were installed vertically inside, or in front of, the Dryclean-US suite. The well casing at each location extends approximately 5 feet below the top of the floor, with the bottom 2-feet of the casing being perforated.

Soil-vapor extraction wells SVE-4, SVE-5, and SVE-6 were connected into a single 2-inch diameter pipe above ground within the cleaners. The manifold piping extended through a hole in a vent on the rear wall of the cleaners where it was then extended to the SVE equipment compound. Well SVE-7 was connected to the SVE equipment compound via

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a single 2-inch diameter SCH 80 PVC pipe run above-ground from the well and over the roof of the Dryclean-USA suite.

Remediation System

An SVE system is being used to extract VOC-contaminated vapors from the subsurface. The extracted VOC-contaminated vapor stream is passed through two (2) sets of granular activated carbon (GAC) vessels where the VOCs are stripped from the vapor before being discharged to the atmosphere through a vent stack. The system is operated with a maximum total flow rate of approximately 200 SCFM, and under a permit obtained from the Puget Sound Clean Air Agency (PSCAA).

An air compressor capable of producing up to 15 SCFM air flow at a pressure of 90 psi is being used to treat VOC-impacted groundwater. The air from the compressor is injected through Well AS-1.

All of the remedial system equipment is housed in a secure shipping container.

2.0 SCOPE OF SERVICE

The remedial system shut down around November 28, 2022 due to an issue with the SVE blower motor, and it remained off for the duration of this reporting period (it was restarted on July 20, 2023). The field activities completed this reporting period (January through March 2023) included the collection of samples from select sub-slab and soil vapor probes and groundwater monitoring wells. Other typical routine O&M activities which were not conducted due to the system being off for the entirety of the reporting period include evaluation of remedial system equipment, monitoring of flow rates and vacuum levels in extraction well lines, field reading of VOC concentrations using a PID from sample ports on extraction well and system process lines. The activities that were completed were done so in general accordance with the approved RAW dated April 20, 2020.

2.1 SYSTEM OPERATION AND MONITORING

System monitoring typically includes the evaluation of flow measurements, vacuum readings, and VOC concentrations (measured using a PID calibrated to Hexane) from designated locations on the extraction well and treatment system lines. The system is designed to run on a continuous basis, 24-hours per day, and when operating it is inspected and monitored on at least a bi-weekly basis.

2.2 QUARTERLY SAMPLING AND ANALYSIS

At the end of this quarter with the system having been off for approximately 7 months samples were collected from select monitoring probes and extraction wells. Results were compared to baseline concentrations to evaluate the effectiveness of the systems in having extracted VOCs from the Site, and to the results of the prior quarter to evaluate the extent that concentrations rebound following the temporary system shutdown. The sampling and analysis procedures are discussed below, and the analytical results are discussed in **Section 2.3**.

2.2.1 SVE System Sampling and Analysis

Based on the findings of the samples collected from the influent and effluent of the GAC treatment system in May 2022 it was determined that emissions from the system were in compliance with Condition 10 of the PSCAA permit, and that it should therefore be permissible to operate the system without control devices. Although extracted vapors are continuing to be processed through the GAC system and monitored with a PID, PSCAA staff confirmed in an email dated August 25, 2022 that it is acceptable to discontinue routine collection of samples for laboratory analysis. Analytical results of the historic GAC samples are presented on **Table 5**.

2.2.2 Air Sparge System

A compressor unit for the air sparge system is set to continuously supply air into air sparge well AS-1. The rate of air being injected had been measured to be approximately 3 to 4 SCFM. The compressor was turned off until the SVE system can be reactivated to extract sparged vapors.

2.2.3 Soil Vapor Sampling and Analysis

Quarterly sampling was conducted on June 29, 2023. In total, 14 vapor samples were collected into 1-liter summa canisters at a flow rate of approximately 200 milliliters per minute. All samples were analyzed for CVOCs in accordance with EPA Method TO-15.

All sampled probes were purged and sampled in general accordance with Ecology's *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remediation* (February 2016).

Prior to purging the probes, a leak check of the fittings was completed by conducting a shut-in test. The shut-in test consists of closing the valve to the probe and then creating a vacuum of approximately 100-inches of water using a pump or syringe. The line was then sealed at the pump end and the vacuum gauge was monitored for approximately 1 minute. A decrease in the vacuum during this period indicates that there is a leak in the line and fittings should be tightened.

Each probe was purged of approximately 3 sample train volumes (approximately 0.1 liters for sub-slab probes, and 0.3 to 0.9 liters for soil vapor probes) prior to sampling. Purging and sampling were generally conducted at a rate of approximately 200 mL/min, although flow rates from some soil vapor probes may have been lower due to tight soil conditions. Leak tests were conducted during the purging and sampling of each probe by placing a liquid (isopropyl alcohol) near the tubing at ground surface, and then analyzing the sample for those tracer compounds. After probes were purged, vapor samples were collected.

2.2.4 Groundwater Sampling and Analysis

On June 29, 2023 groundwater samples were collected from each of the three (3) onsite monitoring wells (MW-1, MW-2, and MW-3). Prior to sampling, the depth to water was gauged to range between depth of 3.06 and 6.73 feet below the top of well casing (TOC). The wells were then purged of a minimum of three well-casing volumes of water (approximately four to five gallons each) using a low-flow rate peristaltic pump equipped with polyethylene tubing. After purging the wells samples were collected directly from the pump discharge and transferred into laboratory-supplied vials appropriate for analysis of volatile organic compounds.

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Upon collection, the sample containers were capped, labeled, stored in a chilled container, and delivered under chain of custody documentation to a state of Washington certified analytical laboratory for analysis. Samples were analyzed for VOCs in accordance with EPA Method 8260D.

2.3 ANALYTICAL RESULTS

2.3.1 Sub-Slab Vapor Analytical Results

Three (3) CVOCs; PCE, TCE, and cis-1,2-DCE were reported in one or more of the analyzed sub-slab vapor samples collected this reporting period (as well as relatively minor detections of the tracer gas compound 2-propanol). The sub-slab vapor sample results from all sampling events, along with the CGs, are summarized in **Table 2**.

- PCE was reported in 7 of the 8 sub-slab probe samples at concentrations ranging between 16 μg/m³ and 810 μg/m³. Two of the reported PCE concentrations (VMP-1 and VMP-3) exceed the CG of 320 μg/m³.
- TCE was reported in 5 of the 8 sub-slab probe samples at concentrations ranging from 5.1 to 76 ug/m³. Two (2) of the reported TCE concentration (VMP-1 and VMP-3) exceeded the CG of 11 μg/m³.
- Cis-1,2-DCE was reported in 1 of the 8 samples (VMP-3) at a concentration of 19 ug/m³. This reported concentration is less than the CG of 610 μg/m³.

PCE and TCE concentrations in sub-slab vapor samples are presented on **Figure 4A**.

2.3.2 Soil Vapor Analytical Results

Five (5) CVOCs were reported in one or more of the six (6) soil vapors samples collected this reporting period; PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and chloroform (as well as relatively minor detections of the tracer gas compound 2-propanol). The analytical data for soil vapor probes, along with the CGs, are summarized in **Table 3**.

 PCE was reported in 4 of the 6 probes sampled at a maximum concentration of 1,000 μg/m³. One sample (VMP-7) exceeded the CG of 960 μg/m³.

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- TCE was reported in 4 of the 6 soil vapor probes sampled at concentrations ranging from 21 to 68 μg/m³. One sample collected (VMP-25D) exceeded the CG of 33 μg/m³ (VMP-25D).
- cis-1,2-DCE was reported in 3 of the 6 soil vapor probes sampled. The concentrations reported ranged from 8.0 μg/m³ to 99 ug/m³, which are less than the CG of 1,800 μg/m³.
- trans-1,2-DCE was reported in 1 of the 6 soil vapor probes sampled. The concentration of 56 μg/m³ in probe VMP-25D is less than the CG of 1,800 μg/m³.
- Chloroform was reported in 1 of the 6 soil vapor probes sampled at a concentration of 11 μg/m³ at probe VMP-7. This reported concentration is equal to the CG of 11 μg/m³.

Reported PCE and TCE concentrations in soil vapor samples are presented on **Figure 4B**.

2.3.3 Groundwater Analytical Results

No CVOCs were reported in the groundwater sample collected from down-gradient monitoring wells MW-1 or MW-2.

PCE was the only CVOC detected in the sample from groundwater monitoring well MW-3, which is located behind the cleaners building. The reported PCE concentration of 11 ug/L is greater than the CG for drinking water of 5 ug/L, but less than the CG for vapor intrusion of 24 ug/L.

The analytical data for groundwater samples, along with the CGs, are summarized in **Table 4**.

3.0 DISCUSSION OF FINDINGS

3.1 CHEMICAL PARAMETERS

3.1.1 Monitoring Probe Analytical Results

Prior to beginning remedial activities concentrations of three (3) CVOCs (PCE, TCE, and chloroform) were reported in excess of CGs in 10 of the 16 sub-slab monitoring probes. In the 9 sub-slab vapor probes sampled at the end of the 2nd quarter 2023, the same three (3) compounds, along with cis-1,2-DCE, were the only CVOCs detected in any sub-slab vapor samples.

- PCE concentrations have been reduced from a baseline maximum of 7,000 ug/m³ at VMP-3 down to 810 ug/m³ at VMP-1. In the approximately 7 months since the remedial system shut down the concentrations of PCE have rebound such that levels in 2 probes (VMP-1 and VMP-3) currently exceed the CG of 320 ug/m³.
- TCE concentrations have been reduced from a baseline maximum of 690 ug/m³ at VMP-3 down to 76 ug/m³ at VMP-3. TCE concentrations in 2 of the nine 9 probes sampled (VMP-1 and VMP-3) remain in excess of the CG of 11 ug/m³.
- cis-1,2-DCE concentrations have been reduced from a baseline maximum of 480 ug/m³ at VMP-3 down to 19 ug/m³ at VMP-3. This concentration is less than the CG of 610 ug/m³.
- Chloroform concentrations have been reduced from a pre-remediation maximum of 4.69 ug/m³ at VMP-13 down to non-detect in all sub-slab probes.

Prior to beginning remedial activities concentrations of four (4) CVOCs (PCE, TCE, vinyl chloride, and chloroform) were reported in excess of CGs in three (3) soil vapor monitoring probes (VMP-7, VMP-23D, and VMP-25D). Each of these three (3) soil vapor probes were sampled during this monitoring event along with VMP-9, VMP-26D, and SVE-1, and currently PCE and TCE are the only CVOCs reported in excess of the CGs.

- PCE was reduced from a baseline maximum of 3,100 ug/m³ down to 1,000 ug/m³, which slightly exceeds the CG of 960 ug/m³. No other soil vapor probe samples reported concentrations exceeding CG.
- TCE was reduced from a baseline maximum of 210 ug/m³ down to 68 ug/m³ at location VMP-25D, which exceeds the CG of 33 ug/m³. No other samples soil vapor probes reported concentrations exceeding CG.
- Chloroform was reduced from a baseline maximum of 38 ug/m³ down to 11 ug/m³ during this reporting period, which is equal to the CG of 11 ug/m³.

- Vinyl chloride was reduced from a baseline maximum of 170 ug/m³ down to non-detect in all soil vapor probes monitored during this reporting period.
- All other reported CVOC concentrations were initially, and currently remain, less than their respective CGs.

3.1.2 Groundwater Monitoring Well Analytical Results

Prior to beginning remedial activities PCE was the only CVOC detected in any of the three (3) onsite groundwater monitoring wells. PCE has historically only ever been detected in well MW-3, which is located behind the cleaners, and has never been detected in either of the two (2) down gradient monitoring wells (MW-1 and MW-2). The concentration of PCE in well MW-3 has been reduced from a baseline concentration of 17 micrograms per liter (ug/L) down to 11 ug/L, which is greater than the CG for drinking water of 5 ug/L, but less than the CG for vapor intrusion and 24 ug/L. The increase from the prior reporting period can be attributed to rebound resulting from the remediation system remaining offline.

No other VOCs were reported in any of the groundwater samples collected this reporting period.

3.2 PHYSICAL PARAMETERS

Routine monitoring of the SVE system has found that it has generally been operating as designed. However, the motor of the SVE blower failed in late November 2022, and the system remained off during the duration of this reporting period pending repairs.

The total combined flow rate from all extraction wells, as measured prior to the blower, has ranged from 150 to 200 SCFM with a vacuum level of approximately 10 inches of water. The temperature of vapors extracted from the wells were typically measured to be around 60 degrees Fahrenheit, and were heated by the blower to approximately 175 degrees Fahrenheit prior to entering the carbon units.

The air sparge compressor is configured to supply air into air sparge well AS-1. The rate of air being injected has previously been measured to be approximately 3 to 4 SCFM. However, the air sparge system has been turned off until repairs to the SVE system are complete.

4.0 CONCLUSIONS AND RECOMMENDATION

Based on the data gathered during this reporting period (2023, Q2), Converse presents the following conclusions:

- The SVE/AS system remained off during this reporting period pending repairs to the SVE blower motor. It was restored to normal operation on July 20, 2023 after the SVE blower was replaced. The SVE/AS system appears to have been functioning as planned prior to shutting down.
- Field monitored concentrations of VOCs in the carbon system influent and effluent indicate that vapors were being sufficiently treated, and that emissions were in compliance with PSCAA permit requirements.
- Analytical results of the quarterly groundwater samples indicate that the AS system
 had reduced the concentration of PCE to levels less than the CG, but since the
 system shut down concentrations have increased to be greater than the CG for
 drinking water.
- Analytical results of quarterly vapor samples indicate that the SVE system has significantly reduced concentrations of CVOCs in the subsurface. PCE and TCE are the only compounds currently reported in excess of their CGs, and the exceedances are limited to the rear portions of the Cleaners and adjoining suites.

Based on the results of monitoring and testing activities performed to date at the Site, the SVE/AS system appears to have been operating as designed. Therefore, it is recommended that the SVE/AS system continue to be operated and monitored as outlined in the RAW now that the SVE blower has been replaced.

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5.0 RELIANCE

This report is for the sole benefit and exclusive use of DS Canyon Park, L.P. in accordance with the terms and conditions of the mutually agreed upon contract. Its preparation has been in accordance with generally accepted environmental practices. No other warranty, either expressed or implied is made. The Scope of Services associated with the report was designed solely in accordance with the objectives, schedule, budget, and risk-management preferences of DS Canyon Park, L.P.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Site. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or complied by others. It is possible to absolutely confirm that no hazardous materials and/or substances exist at the Site. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the property at the time of the assessment. Also, events may occur after the site visit, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

6.0 REFERENCES

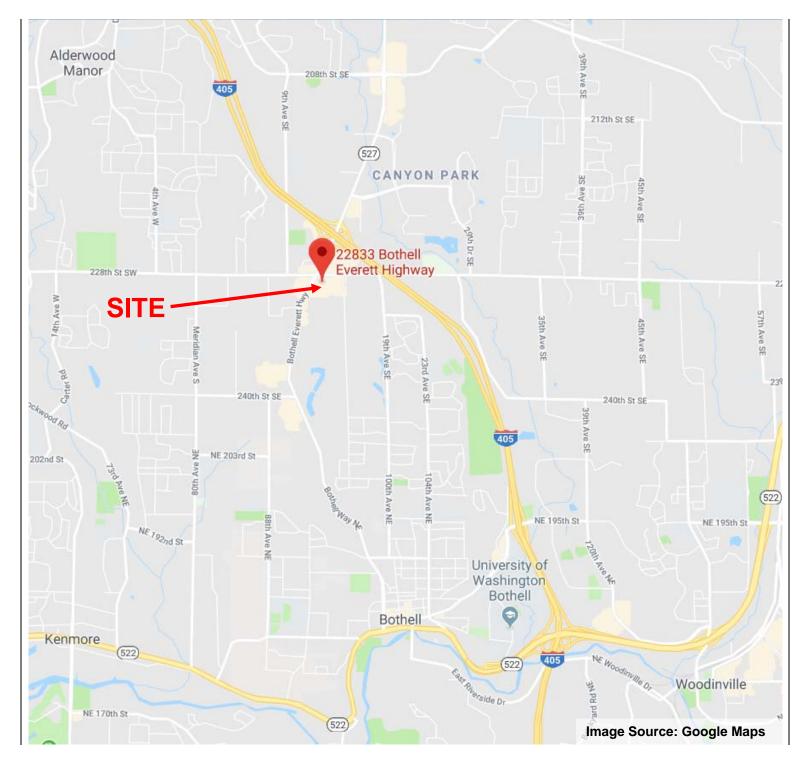
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- Ecology, Opinion Pursuant to WAC 173-340-515(5) on Remedial Action For Dry Clean US, 22833 Bothell Way SE, Suite 114, Bothell, WA 98201, Facility/Site No. 5125580, Cleanup Site ID 1629, VCP No.: NW3229, September 23, 2020.
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Figures

Figures



SITE VICINITY



DS Canyon Park, L.P. Dryclean US - Canyon Park Place Shopping Center 22833 Bothell Everett Highway Bothell, Washington 98021

Project No:

17-42-200-07



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FIGURE



SITE PLAN

DS Canyon Park, L.P. Dryclean US - Canyon Park Place Shopping Center 22833 Bothell Everett Highway Bothell, Washington 98021

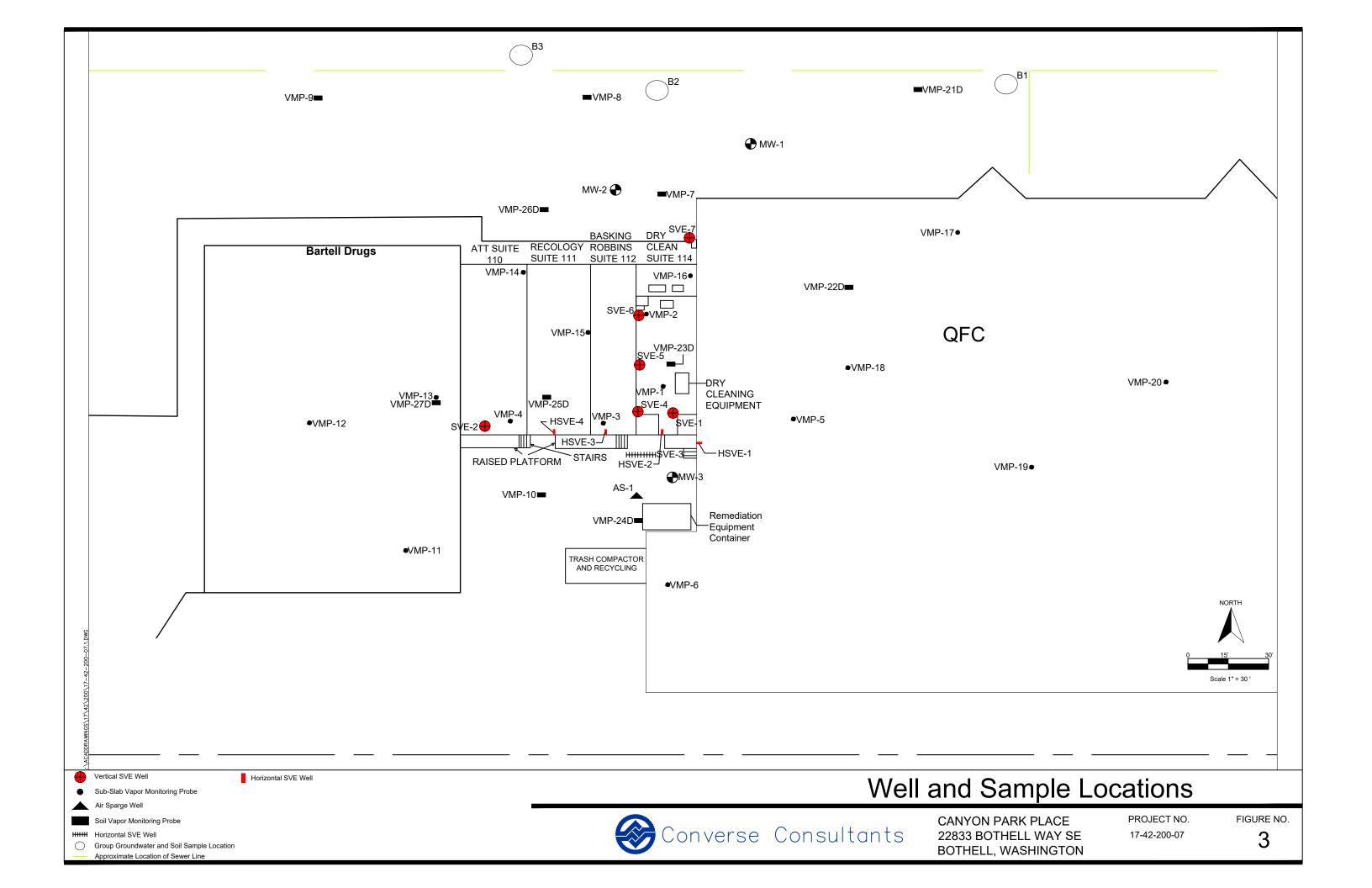
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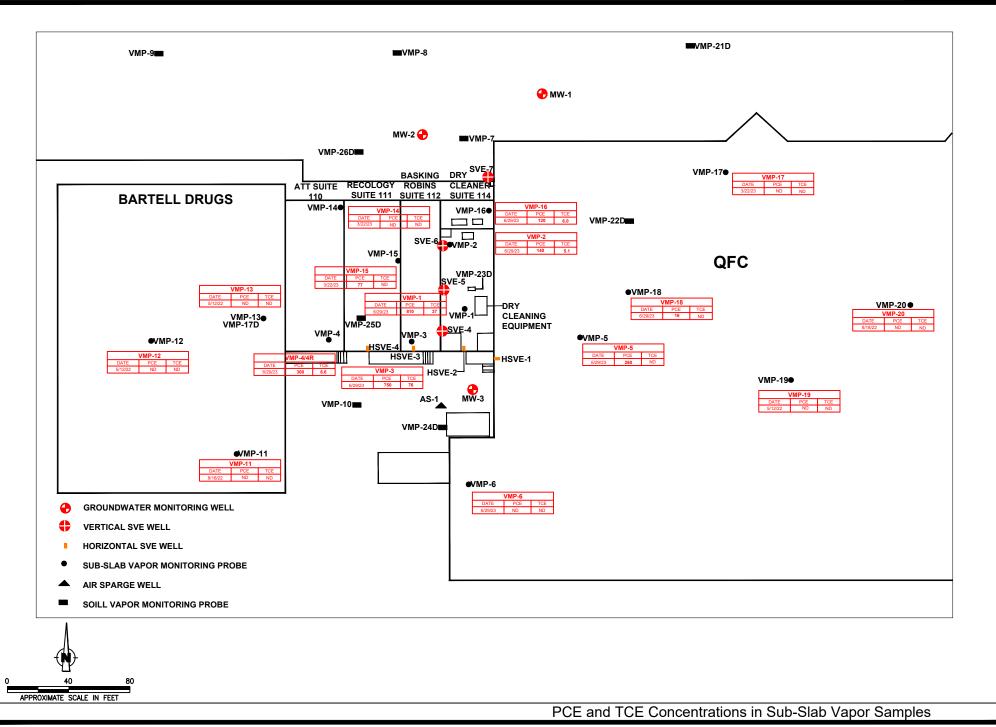
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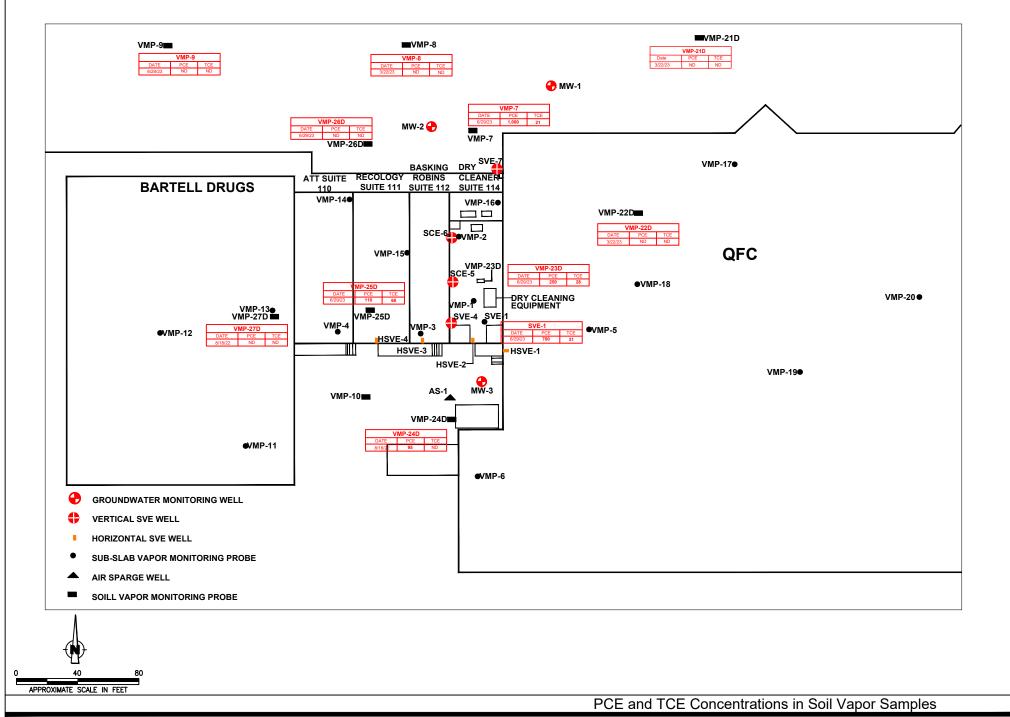
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FIGURE 2





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Tables

Tables

TABLE 1

INDOOR/OUTDOOR AIR ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL WA

			TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	BENZENE	CARBON TETRACHLORIDE	CHLOROFORM	CHLOROMETHANE	CIS-1,2-DICHLOROETHENE (DCE)	TRANS-1,2- DICHLOROETHENE (DCE)	ETHYLBENZENE	VINYL ACETATE	All OTHER VOCs
Suite Samples	Location	Sample Date					u	g/m3					
	Front of Suites	9/7/2011	0.172	0.186	1.286		ND<0.097		ND<0.080	ND<0.051	3.27	ND<0.052	ND
Outdoor / Ambient	Rear of Suites	9/7/2011	ND<0.32	ND<0.256	0.238		ND<0.230		ND<0.189	ND<0.121	0.86	ND<0.123	ND
	Real of Suites	09/05/2019	0.189	ND<0.107	0.345	0.431	ND<0.0973	0.871	ND<0.0793	0.0850	0.206	ND<0.0704	ND
	Front of Suite	9/7/2011	0.175	0.116	1.271		ND<0.087		ND<0.071	ND<0.045	ND<2.03	ND<0.046	ND
#114 - Dryclean-US	Rear of Suite	9/7/2011	0.356	0.202	1.209		0.101		ND<0.075	ND<0.048	1.97	0.049	ND
	Real of Suite	09/05/2019	15.5	18.3	0.561	0.441	ND<0.0973	1.32	ND<0.0793	0.0999	0.321	ND<0.0704	ND
	East Side	9/7/2011	0.173	0.271	1.186		2.649		ND<0.073	ND<0.047	ND<1.67	ND<0.048	ND
#115 - QFC	Most Cido	9/7/2011	0.142	0.22	1.323		1.935		ND<0.011	ND<0.046	2.061	ND<0.047	ND
	West Side	09/05/2019	4.00	0.143	1.02	0.693	ND<0.0973	1.54	ND<0.0793	0.130	1.19	1.47	ND
#112 - Baskin	Door of Cuito	9/7/2011	1.162	0.258	1.388		1.144		ND<0.074	ND<0.048	ND<1.70	0.048	ND
Robins	Rear of Suite	09/05/2019	0.517	0.136	0.521	0.433	ND<0.0973	0.942	0.175	0.0941	2.05	0.132	ND
#111 - Recology	1 - Recology Rear of Suite 09/05/2019			0.643	1.98	0.932	4.67	1.05	ND<0.0793	0.113	0.668	0.0870	ND
	DOE MTCA Method B - Indoor Air Screening Levels			0.33	0.32	0.42	0.11	41	18	18	460	91	

Notes:

DOE MTCA = Washington State Department of Ecology, Model Toxics Control Act Bold results are above laboratory detection limits Shaded results indicate concentrations above regulatory limits

-- = not analyzed or data not available

ND = Nod detected above indicated laboratory detection limit

TABLE 2 SUB-SLAB VAPOR ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL, WA

			TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	CIS-1,2- DICHLOROETHENE (Cis-1,2-DCE)	TRANS-1,2- DICHLOROETHENE (Trans-1,2-DCE)	VINYL CHLORIDE	CARBON TETRACHLORIDE	CHLOROFORM	2-PROPANOL (Isopropyl Alcohol - tracer)	ALL OTHER VOCs
Sample Location	Sample Date	Note				ug	_J /m3				
	4/27/2016	PS Basellne	8,300	140	<17	<17	<11	-	<21	-	ND
	6/23/2016	Pre - PS	5,200	83	<12	<12	<7.6	-	<14	-	ND
	6/24/2016	Post - PS	4,900	88	<11	<11	<7.2	-	<14	-	ND
	10/25/2016	Pre - PS	10,000	180	<21	<21	<14	-	<26	-	ND
	10/27/2016	Post - PS	4,800	90	<9.1	<9.1	<5.9	-	<11	-	ND
	10/18/2021	Rem. Baseline	6,800	100	<29	<29	<18	<46	<35	2,000	ND
VMP-1	11/16/2021	Week 2	59	10	<3.7	<3.7	<2.4	<5.9	<4.6	5,800	ND
	2/8/2022	O&M 2022 Q1	80	14	<3.8	<3.8	<2.5	<6.1	<4.7	150	ND
	5/12/2022	O&M 2022 Q2	36	16	<3.9	<3.9	<2.5	<6.2	<4.8	440	ND
	8/18/2022	O&M 2022 Q3	12	<5.5	<4.1	<4.1	<2.6	<6.5	<5.0	<10	ND
	12/5/2022	O&M 2022 Q4	64	18	<3.9	<3.9	<2.5	<6.2	<4.8	<9.7	ND
	3/22/2023	O&M 2023 Q1	570	31	<2.9	<2.9	<1.9	-	<20	-	ND
	6/29/2023	O&M 2023 Q2	810	37	<3.4	<3.4	<2.2	<5.3	<4.1	18	ND
	4/28/2016	PS Basellne	1,300	24	<9.4	<9.4	<6.0	-	<12	-	ND
	6/23/2016	Pre - PS	1,000	11	<3.0	<3.0	<1.9	-	<3.6	-	ND
	6/24/2016	Post - PS	930	12	<3.1	<3.1	<2.0	-	<3.8	-	ND
	10/25/2016	Pre - PS	1,200	19	<8.8	<8.0	<5.6	-	<11	-	ND
	10/27/2016	Post - PS	750	14	<2.1	<2.1	<1.4	-	<2.6	-	ND
VMP-2	10/18/2021	Rem. Baseline	480	<45	<34	<34	<21	<53	<41	21,000	ND
	11/16/2021	Week 2	87	13	<3.7	<3.7	<2.4	<5.9	<4.6	5,400	ND
	2/8/2022	O&M 2022 Q1	<45	10	<3.7	<3.7	<2.4	<5.9	<4.6	15	ND
	8/18/2022	O&M 2022 Q3	<6.6	<5.2	<3.8	<3.8	<2.5	<6.1	<4.7	<9.5	ND
	3/23/2023	O&M 2023 Q1	<35	<0.55	<2	<2	<1.3	-	<0.25	-	ND
	6/29/2023	O&M 2023 Q2	140	5.1	<3.6	<3.6	<2.3	<5.7	<4.4	<8.9	ND
	4/28/2016	PS Baseline	18,000	1,200	330	<46	<30	-	<57	-	ND
	6/23/2016	Pre - PS	19,000	1,200	300	<36	<23	-	<44	-	ND
	6/24/2016	Post - PS	18,000	1,100	270	<38	<24	-	<46	-	ND
	10/25/2016	Pre - PS	18,000	1,100	210	<37	<24	-	<46	-	ND
	10/27/2016	Post - PS	14,000	1,000	350	<24	<15	-	<29	-	ND
\ m <= -	10/18/2021	Rem. Baseline	7,000	690	480	<28	<18	<45	<35	250	ND
VMP-3	11/16/2021	Week 2	280	120	380	7.5	<2.3	<5.8	7.5	1,000	ND
	2/8/2022	O&M 2022 Q1	170	39	73	<3.7	<2.4	<5.9	<4.6	1500	ND
	5/12/2022	O&M 2022 Q2	120	29	61	<3.8	<2.5	<6.1	<4.7	24	ND
	8/17/2022	O&M 2022 Q3	<6.4	<5.1	<3.8	<3.8	<2.4	<6.0	<4.6	13	ND
	11/29/2022	O&M 2022 Q4	73	12	23	<3.5	<2.3	<5.6	<4.4	230	ND
	3/22/2023	O&M 2023 Q1	420	39	13	<2.9	<1.9	-	1.6	-	ND
	6/29/2023	O&M 2023 Q2	750	76	19	<3.8	<2.5	<6.1	<4.7	15	ND

TABLE 2 SUB-SLAB VAPOR ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL, WA

			TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	CIS-1,2- DICHLOROETHENE (Cis-1,2-DCE)	TRANS-1,2- DICHLOROETHENE (Trans-1,2-DCE)	VINYL CHLORIDE	CARBON TETRACHLORIDE	CHLOROFORM	2-PROPANOL (Isopropyl Alcohol - tracer)	ALL OTHER VOCs
Sample Location	Sample Date	Note				นดู	g/m3				
	4/28/2016	PS Basellne	<1,100	<880	<650	<650	<420	-	<800	-	ND
	6/21/2016	PS Basellne	3,600	60	<9.5	<9.5	<6.1	-	<12	-	ND
	6/23/2016	Pre - PS	3,700	63	<9.0	<9.0	<5.8	-	<11	-	ND
	6/24/2016	Post - PS	3,500	58	<9.5	<9.5	<6.1		<12	-	ND
	10/25/2016	Pre - PS	2,800	40	<8.5	<8.5	<5.5		<10	-	ND
VMP-4/4R	10/27/2016	Post - PS	1,500	26	<4.7	<4.7	<3.0	1	<5.8	-	ND
	2/8/2022	O&M 2022 Q1	88	<4.7	<3.4	<3.4	<2.2	<5.5	<4.2	500	ND
	8/18/2022	O&M 2022 Q3	<6.6	<5.2	<3.8	<3.8	<2.5	<6.1	60	490	ND
	11/29/2022	O&M 2022 Q4	12	<5.2	<3.8	<3.8	<2.5	<6.1	23	380	ND
	3/22/2023	O&M 2023 Q1	<33	1.2	<1.9	<1.9	<1.3		<0.24	-	ND
	6/29/2023	O&M 2023 Q2	300	6.6	<3.9	<3.9	<2.5	<6.2	<4.8	<9.6	ND
	4/28/2016	PS Baseline	1,400	<3.9	<2.9	<2.9	<1.8		<3.5	-	ND
	6/24/2016	Post-PS	1,100	2.8	<2.1	<2.1	<1.4	-	<2.6	-	ND
	10/18/2021	Rem. Baseline	850	<96	<71	<71	<71	<110	<88>	8,900	ND
	11/16/2021	Week 2	<6.1	<4.8	<3.6	<3.6	<2.3	<5.7	<4.4	640	ND
\	2/8/2022	O&M 2022 Q1	390	<5.2	<3.8	<3.8	<2.4	<6.0	<4.7	27	ND
VMP-5	5/12/2022	O&M 2022 Q2	330	<5.4	<4.0	<4.0	<2.6	<6.4	<4.9	510	ND
	8/18/2022	O&M 2022 Q3	320	<4.8	<3.5	<3.5	<2.3	<5.6	<4.3	8.7	ND
	12/5/2022	O&M 2022 Q4	110	8.6	<3.7	<3.7	<2.4	<5.8	<4.5	24	ND
	3/22/2023	O&M 2023 Q1	260	<0.81	<3	<3	<1.9	-	<0.37	-	ND
	6/29/2023	O&M 2023 Q2	260	<5.0	<3.7	<3.7	<2.4	<5.9	<4.6	66	ND
	4/28/2016	PS Baseline	23	<6.0	<2.8	<4.4	<2.8	-	5.2	-	ND
	10/19/2021	Rem. Baseline	<120	<94	<70	<70	<70	<110	<86	37,000	ND
VMP-6	2/8/2022	O&M 2022 Q1	11	<5.1	<3.8	<3.8	<2.4	<6.0	<4.6	<9.3	ND
	8/18/2022	O&M 2022 Q3	10	<4.9	<3.6	<3.6	<2.3	<5.8	<4.5	57	ND
	6/29/2023	O&M 2023 Q2	<10	<8.2	<6.0	<6.0	<3.9	<9.6	<7.4	<15	ND
VMP-10	4/28/2016	Assessment	2.8	<1.1	<0.84	<0.84	<0.54		9.3	-	ND
	9/6/2019	Assessment	<1.36	6.33	<0.793	<0.793	<0.511	<1.26	<0.973	-	ND
VMP-11 (BRT)	2/8/2022	O&M 2022 Q1	<5.8	<4.6	<3.4	<3.4	<2.2	<5.4	<4.2	490	ND
(BIXI)	8/17/2022	O&M 2022 Q3	<6.6	<5.2	<3.8	<3.8	<2.5	<6.1	<4.7	480	ND
VMP-12	9/6/2019	Assessment	<1.36	1.52	<0.793	<0.793	<0.511	<1.26	<0.973	-	ND
(BRT)	5/12/2022	O&M 2022 Q2	<6.1	<4.8	<3.6	<3.6	<2.3	<5.7	<4.4	25	ND
	9/6/2019	Assessment	1.78	1.95	<0.793	<0.793	<0.511	<1.26	4.69	-	ND
VMP-13 (BRT)	10/18/2021	Rem. Baseline	71	<9.6	<7.0	<7.0	<4.6	<11	<8.7	2,100	ND
(5/(1)	5/12/2022	O&M 2022 Q2	<6.8	<5.4	<4.0	<4.0	<2.6	<6.3	<4.9	32	ND
	9/5/2019	Assessment	2.63	<1.07	<0.793	<0.793	<0.511	<1.26	<0.973	-	ND
	10/18/2021	Rem. Baseline	<63	<50	<37	<37	<24	<59	<46	6,400	ND
VMP-14 (AT&T)	2/8/2022	O&M 2022 Q1	<6.2	<4.9	<3.6	<3.6	<2.3	<5.8	<4.5	220	ND
(ΔΙΦΙ)	11/29/2022	O&M 2022 Q4	<6.6	<5.2	<3.8	<3.8	<2.5	<6.1	<4.7	96	ND
	3/22/2023	O&M 2023 Q1	<36	<0.57	<2.1	<2.1	<1.4		<0.26	-	ND

TABLE 2

SUB-SLAB VAPOR ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL, WA

			TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	CIS-1,2- DICHLOROETHENE (Cis-1,2-DCE)	TRANS-1,2- DICHLOROETHENE (Trans-1,2-DCE)	VINYL CHLORIDE	CARBON TETRACHLORIDE	CHLOROFORM	2-PROPANOL (Isopropyl Alcohol - tracer)	ALL OTHER VOCs
Sample Location	Sample Date	Note				นดู	g/m3				
	9/11/2019	Assessment	811	1.08	3.65	0.795	<0.511	<1.26	<0.973	-	ND
	10/18/2021	Rem. Baseline	460	<19	<14	<14	<9.1	<22	<17	5,200	ND
VMP-15 (Recology)	5/12/2022	O&M 2022 Q2	7.3	<5.0	<3.7	<3.7	<2.4	<5.9	<4.6	480	ND
(Recology)	11/29/2022	O&M 2022 Q4	<7.2	<5.7	<4.2	<4.2	<2.7	<6.7	<5.2	240	ND
	3/22/2023	O&M 2023 Q1	77	<0.55	<2	<2	<1.3	•	<0.25	-	ND
	9/9/2019	Assessment	274	12.3	<0.793	<0.793	0.532	<1.26	<0.973	-	ND
	10/18/2021	Rem. Baseline	<2,600	<2,000	<1,500	<1,500	<980	<2,400	<1,900	930,000	ND
	2/8/2022	O&M 2022 Q1	110	14	<3.8	<3.8	<2.4	<6.0	<4.7	360	ND
VMP-16	5/12/2022	O&M 2022 Q2	160	14	<4.2	<4.2	<2.7	<6.7	<5.2	420	ND
(Cleaners)	8/18/2022	O&M 2022 Q3	120	10	<3.7	<3.7	<2.4	<5.9	<4.6	200	ND
	12/5/2022	O&M 2022 Q4	48	8.5	<4.0	<4.0	<2.6	<6.3	<4.9	72	ND
	3/23/2023	O&M 2023 Q1	89	11	<3.8	<3.8	<2.5	-	0.61	1	ND
	6/29/2023	O&M 2023 Q2	120	6.0	<3.8	<3.8	<2.5	<6.1	<4.7	120	ND
\	9/9/2019	Assessment	<1.36	<1.07	<0.793	<0.793	<0.511	<1.26	<0.973	-	ND
VMP-17 (QFC)	12/5/2022	O&M 2022 Q4	<6.5	<5.2	<3.8	<3.8	<2.5	<6.1	<4.7	<9.5	ND
(4: 3)	3/22/2023	O&M 2023 Q1	<37	<0.59	<2.2	<2.2	<1.4	•	<0.27	1	ND
	9/6/2019	Assessment	19.2	<1.07	<0.793	<0.793	<0.511	<1.26	<0.973	1	ND
VMP-18	10/18/2021	Rem. Baseline	<130	<100	<74	<74	<74	<120	<91	23,000	ND
(QFC-W)	2/8/2022	O&M 2022 Q1	28	<5.1	<3.8	<3.8	<2.4	<6.0	<4.6	14	ND
	6/29/2023	O&M 2023 Q2	16	<5.4	<4.0	<4.0	<2.6	<6.4	<4.9	18	ND
VMP-19	1/4/1900	Assessment	<1.36	<1.07	<0.793	<0.793	<0.511	1.56	<0.973	ı	ND
(QFC)	5/12/2022	O&M 2022 Q2	<7.1	<5.6	<4.1	<4.1	<2.7	<6.6	<5.1	27	ND
\/MD 00	9/6/2019	Assessment	6.49	<1.07	<0.793	<0.793	<0.511	<1.26	<0.973	-	ND
VMP-20 (QFC-E)	2/8/2022	O&M 2022 Q1	<6.2	<4.9	<3.6	<3.6	<2.3	<5.7	<4.4	<8.9	ND
(· · -/	8/18/2022	O&M 2022 Q3	<6.4	<5.1	<3.8	<3.8	<2.4	<6.0	<4.6	120	ND
Manifold - HSVE Wells (-1, -2, -3, -4)	11/16/2021	O&M - Week 2	20	<4.7	<3.4	<3.4	<2.2	<5.5	<4.2	59	ND
	E MTCA Metho Soil Gas Scree	320	11	610	610	9.5	14	3.6	-		

Notes

DOE MTCA = Washington State Department of Ecology, Model Toxics Control Act

-- = not analyzed or data not available

ND = Not detected above laboratory detection limits

Bold results are above laboratory detection limits

Shaded results indicate concentrations above regulatory limits

PS = Pilot Study

TABLE 3 SOIL VAPOR ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHELL WA

				TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	CIS-1,2- DICHLOROETHENE (cis 1,2-DCE)	TRANS-1,2- DICHLOROETHENE (trans 1,2-DCE)	1,1-DICHLOROETHENE (1,1-DCE)	VINYL CHLORIDE	CHLOROFORM	2-PROPANOL (Isopropyl Alcohol - tracer)	ALL OTHER VOCS
Sample Location	Depth (feet bgs)	Sample Date	Note					(µg/m³)				
		4/27/2016	PS Baseline	6,000	40	<9.6	<9.6		<6.2	18		ND
		6/23/2016	Pre-PS	11,000	80	31	<22	-	<14	32		ND
		6/24/2016	Post-PS	11,000	88	36	<22	1	<14	29		ND
		10/18/2021	Rem. Baseline	3,100	29	47	<15	<15	<9.6	38	400	ND
VMP-7	6	11/16/2021	Week 2	970	5.8	<3.6	<3.6	<3.6	<2.3	<4.4	4,400	ND
		2/8/2022	O&M 2022 Q1	11	<4.9	<3.6	<3.6	<3.6	<2.3	<4.4	500	ND
		12/05/2022	O&M 2022 Q4	66	<5.1	<3.8	<3.8	<3.8	<2.4	<4.6	<9.3	ND
		3/22/2023	O&M 2023 Q1	<35	<0.56	<2.1	<2.1	<2.1	<1.3	<0.26		ND
		6/29/2023	O&M 2023 Q2	1,000	21	6.7	<3.6	<3.6	<2.3	11		ND
		4/27/2016	PS Baseline	<1.6	1.6	0.99	<0.91		<0.59	4.6		ND
VMP-8	6	12/05/2022	O&M 2022 Q4	<6.0	<4.8	<3.5	<3.5	<3.6	<2.3	10	39	ND
		3/22/2023	O&M 2023 Q1	<35	<0.56	<2.1	<2.1	<2.1	<1.3	4.8		ND
		4/27/2016	PS Baseline	5.2	1.8	<0.97	<0.97		<0.62	20		ND
VMP-9	6	8/18/2022	O&M 2022 Q3	31	<5.9	<4.3	<4.3	<2.8	<6.9	<5.3	19	ND
		6/29/2023	O&M 2023 Q2	<6.7	<5.3	<3.9	<3.9	<3.9	<2.5	<4.8	17	ND
VMD 24D	5	9/9/2019	Assessment	<1.36	<1.07	<0.793	<0.793	<0.793	<0.511	<0.973		ND
VMP-21D	5	3/22/2023	O&M 2023 Q1	<120	<1.8	<6.7	<6.7	<6.7	<4.3	<0.83		ND
		9/9/2019	Assessment	10.5	<1.07	<0.793	<0.793	<0.793	<0.511	<0.973		ND
		10/18/2021	Rem. Baseline	<59,000	<47,000	<34,000	<34,000	<34,000	<22,000	<42,000	20,000,000	ND
VMP-22D	5	2/8/2022	O&M 2022 Q1	46	<4.9	<3.6	<3.6	<3.6	<2.3	<4.4	90	ND
VIVIP-22D	5	8/17/2022	O&M 2022 Q3	40	<5.2	<3.8	<3.8	<3.9	<2.5	<4.7	22	ND
		12/5/2022	O&M 2022 Q4	36	<4.9	<3.6	<3.6	<3.7	<2.3	<4.5	<9.0	ND
		3/22/2023	O&M 2023 Q1	<48	<0.76	<2.8	<2.8	<2.8	<1.8	<0.35		ND
		9/9/2019	Assessment	459	39.8	125	1.58	<0.793	0.931	2.93		ND
		10/18/2021	Rem. Baseline	520	118	300	15	<7.5	14	<9.2	1,800	ND
		11/16/2021	Week 2	660	49	30	<3.6	<3.6	<2.3	<4.4	4,200	ND
		2/8/2022	O&M 2022 Q1	290	35	16	<3.9	<3.9	<2.5	<4.8	360	ND
VMP-23D	5	5/12/2022	O&M 2022 Q2	320	58	27	<3.8	<3.9	<2.5	<4.7	630	ND
		8/18/2022	O&M 2022 Q3	520	130	20	<4.0	<4.1	<2.6	<4.9	<9.9	ND
		12/5/2022	O&M 2022 Q4	240	38	9.6	<4.1	<4.2	<2.6	5.0	140	ND
		3/23/2023	O&M 2023 Q1	<37	<0.58	<2.1	<2.1	<2.1	<1.4	<0.27		ND
		6/29/2023	O&M 2023 Q2	250	28	8.0	<3.9	<4.0	<2.5	<4.8	17	ND
VMP-24D	3	9/9/2019	Assessment	241	2.03	<0.793	<0.793	<0.793	1.09	<0.973		ND
VIVIF-24D	<u> </u>	8/17/2022	O&M 2022 Q3	95	<5.6	<4.2	<4.2	<4.2	<2.7	<5.1	16	ND
		9/11/2019	Assessment	306	118	3,560	1,370	23.8	91.5	<0.973		ND
		10/18/2021	Rem. Baseline	190	210	3,300	840	<39	170	<48	33,000	ND
		5/12/2022	O&M 2022 Q2	310	54	27	22	<3.9	<2.4	<4.7	350	ND
VMP-25D	5	8/17/2022	O&M 2022 Q3	7.8	<4.9	<3.6	<3.6	<3.7	<2.3	<4.5	12	ND
		11/29/2022	O&M 2022 Q4	180	44	16	12	<3.7	<2.3	<4.5	100	ND
		3/22/2023	O&M 2023 Q1	100	39	19	24	<3.3	<2.1	0.48		ND
		6/29/2023	O&M 2023 Q2	110	68	99	56	<3.7	<2.4	<4.5	1,800	ND

TABLE 3 SOIL VAPOR ANALYTICAL SUMMARY

CANYON PARK PLACE **BOTHELL WA**

				TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	CIS-1,2- DICHLOROETHENE (cis 1,2-DCE)	TRANS-1,2- DICHLOROETHENE (trans 1,2-DCE)	1,1-DICHLOROETHENE (1,1-DCE)	VINYL CHLORIDE	CHLOROFORM	2-PROPANOL (Isopropyl Alcohol - tracer)	ALL OTHER VOCs
Sample Location	Depth (feet bgs)	Sample Date	Note					(µg/m³)				
		9/9/2019	Assessment	<1.36	<1.07	<0.793	<0.793	<0.793	<0.511	<0.973		ND
VMP-26D	5	10/18/2021	Rem. Baseline	<6.2	<4.9	<3.6	<3.6	<3.6	<2.3	<4.5	740	ND
VIVIF-20D	5	2/8/2022	O&M 2022 Q1	<6.5	<5.2	<3.8	<3.8	<3.8	<2.4	<4.7	13	ND
		6/29/2023	O&M 2023 Q2	<7.2	<5.7	<4.2	<4.2	<4.2	<2.7	<5.2	<10	ND
VMP-27D	5	9/9/2019	Assessment	2.94	<1.07	<0.793	<0.793	<0.793	<0.511	<0.973		ND
VIVIF-27D	,	8/18/2022	O&M 2022 Q3	<6.6	<5.2	<3.8	<3.8	<3.9	<2.5	<4.7	18	ND
		10/18/2021	Rem. Baseline	<61,000	<48,000	<36,000	<36,000	<36,000	<23,000	<44,000	7,500,000	ND
		5/12/2022	O&M 2022 Q2	200	59	13	<3.7	<3.7	<2.4	<4.5	150	ND
SVE-1	3-8	12/5/2022	O&M 2022 Q4	150	40	<3.9	<3.9	<4.0	<2.5	<4.8	<9.7	ND
		3/23/2023	O&M 2023 Q1	420	24	<3	<3	<3	<1.9	<0.37		ND
		6/29/2023	O&M 2023 Q2	780	31	<4.3	<4.3	<4.3	<2.8	<5.3	<11	ND
Manifold - Vertical SVE Wells (SVE-4, -5, -6, -7)	SVE Wells 3-5 11/16/2021		O&M - Week 2	110	12	26	<3.3	<3.3	<2.1	<4.1	11	ND
	DOE MTCA Method B - Deep Soil Gas Screening Levels			960	33	1,800	1,800	9,100	28	11	NA	

DOE MTCA = Washington State Department of Ecology, Model Toxics Control Act bgs = below ground surface

Bold results are above laboratory detection limits

Shaded results indicate concentrations above regulatory limits

-- = not analyzed or data not available

ND = Not detected above laboratory detection limits

ug/m³ = micrograms per cubic meter

TABLE 4 GROUNDWATER ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL WA

		PCE	TCE	VINYL CHLORIDE	CHLOROFORM	BENZENE	ALL OTHER VOCs
Sample Location	Sample Date				ug/L		
	8/6/2007	<0.2	<0.2	<0.2	0.63	<0.2	ND
	12/28/2007	<0.2	<0.2	<0.2	3.57	<0.2	ND
	3/19/2008	<0.2	<0.2	<0.2	<0.2	-	ND
	6/26/2008	<0.2	<0.2	<0.2	<0.2	-	ND
	3/23/2012	<1.0	<1.0	<0.2	<1.0	<1.0	ND
	2/8/2016	<1.0	<1.0	<0.2	<1.0	<1.0	ND
MW-1	9/23/2016	<1.0	<1.0	<0.2	<1.0	-	ND
10100-1	5/18/2017	<1.0	<1.0	<0.2	<1.0	-	ND
	10/19/2021	<1	<0.5	<0.02	ī	-	ND
	5/13/2022	<1	<1	<0.2	<1	<0.35	ND
	8/18/2022	<1	<0.5	<0.02	<1	<0.35	ND
	11/21/2022	<0.2	<0.2	<0.02	0.38	<0.2	ND
	3/22/2023	<1	<0.5	<0.02	<1	<0.35	ND
	6/29/2023	<1	<0.5	<0.02	-	-	ND
	8/6/2007	<0.2	<0.2	<0.2	0.85	<0.2	ND
	12/28/2007	<0.2	<0.2	<0.2	<0.2	<0.2	ND
	3/19/2008	<0.2	<0.2	<0.2	<0.2	-	ND
	6/26/2008	<0.2	<0.2	<0.2	<0.2	-	ND
	3/23/2012	<0.1	<0.1	<0.2	<1.0	<1.0	ND
	2/8/2016	<0.1	<0.1	<0.2	<1.0	<1.0	ND
	6/21/2016	<1.0	<1.0	<0.2	<1.0	-	ND
MW-2	6/27/2016	<1.0	<1.0	<0.2	<1.0	-	ND
10100-2	9/23/2016	<1.0	<1.0	<0.2	<1.0	-	ND
	5/18/2017	<1.0	<1.0	<0.2	<1.0	-	ND
	10/19/2021	<1	<0.5	<0.02	ı	-	ND
	5/13/2022	<1	<1	<0.2	<1	<0.35	ND
	8/18/2022	<1	<0.5	<0.02	<1	<0.35	ND
	11/21/2022	<0.2	<0.2	<0.02	<0.2	<0.2	ND
	3/22/2023	<1	<0.5	<0.02	<1	<0.35	ND
	6/29/2023	<1	<0.5	<0.02	-	-	ND

TABLE 4 GROUNDWATER ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL WA

		PCE	TCE	VINYL CHLORIDE	CHLOROFORM	BENZENE	ALL OTHER VOCs
Sample Location	Sample Date				ug/L		
	8/6/2007	5	<0.2	<0.2	0.22	<0.2	ND
	12/28/2007	15.5	0.24	<0.2	<0.2	<0.2	ND
	3/19/2008	18	0.20	<0.2	<0.2	-	ND
	6/26/2008	6.4	<0.2	<0.2	1.60	-	ND
	7/18/2008	0.62	<0.2	<0.2	<0.2	-	ND
	10/22/2008	4.7	<0.2	<0.2	<0.2	-	ND
	1/6/2009	34	<0.2	<0.2	<0.2	-	ND
	10/23/2009	39	0.39	<0.2	<0.2	_	ND
	1/18/2010	29	0.33	<0.2	0.32	-	ND
	3/31/2010	19	<0.2	<0.2	0.59	-	ND
	6/24/2010	35	0.36	<0.2	<0.2	-	ND
NAVA / O	8/18/2020	22	<0.2	<0.2	<0.2	-	ND
MW-3	3/23/2012	56	<1.0	<0.2	<1.0	<1.0	ND
	2/8/2016	43	<1.0	<0.2	<1.0	<1.0	ND
	6/21/2016	33	<1.0	<0.2	<1.0	-	ND
	6/27/2016	9.3	<1.0	<0.2	<1.0	-	ND
	9/23/2016	19	<1.0	<0.2	<1.0	-	ND
	5/18/2017	21	<1.0	<0.2	<1.0	-	ND
	10/19/2021	17	<0.5	<0.02	-	_	ND
	5/13/2022	1.7	<1	<0.2	<1	<0.35	ND
	8/18/2022	1.1	<0.5	<0.02	<1	<0.35	ND
	11/21/2022	2.3	<0.2	<0.2	<0.2	<0.2	ND
	3/22/2023	11	<0.5	<0.02	<1	<0.35	ND
	6/29/2023	11	<0.5	<0.02	-	_	ND
Maximum Co	nctentration	56	0.39	ND	3.57	ND	ND
Cleanup Le	DOE MTCA Method A Cleanup Levels - For Drinking Water		4	0.29	14	5	
DOE MTCA Cleanup Le Vapor In	evels - For	24	1.4	0.35	1.2	2.4	

Notes:

DOE MTCA = Washington State Department of Ecology, Model Toxics Control Act

-- = not analyzed or data not available

ND = Not detected above laboratory detection limits

Bold results are above laboratory detection limits

Shaded results indicate concentrations above regulatory limits

^{* =} Value is MTCA level B

^{** =} Maximum contaminant level

TABLE 5 CARBON SYSTEM ANALYTICAL SUMMARY

CANYON PARK PLACE BOTHEL, WA

			TETRACHLOROETHENE (PCE)	TRICHLOROETHENE (TCE)	CIS-1,2-DICHLOROETHENE (Cis-1,2-DCE)	ACETONE	BENZENE	2-BUTANONE (Methyl Ethyl Ketone)	DICHLORODIFLUOROMETHANE (FREON 12)	ETHANOL	TETRAHYDROFURAN	2-PROPANOL (Isopropyl Alcohol - tracer)	ALL OTHER VOCs
Sample Location	Sample Date	Note	ug/m3										
Carbon Influent	11/4/2021	O&M - Day 1	210	7.0	15	50	3.0	49	250	30	1,500	27	ND
	11/16/2021	O&M - Week 2	38	8.1	7.5	25	<2.9	<11	19	78	8.4	53	ND
	2/8/2022	O&M 2022 Q1	<7.0	<5.5	<4.1	31	<3.3	<12	<5.1	130	<3.0	<10	ND
	3/22/2022	O&M 2022 Q2	<6.5	<5.1	<3.8	-	-	-	-	-	-	-	ND
	5/12/2022	O&M 2022 Q2	<6.2	<4.9	<3.6	<22	<2.9	<11	13	82	<2.7	26	ND
	11/4/2021	O&M - Day 1	<6.3	<5.0	<3.7	<22	<3.0	<11	<4.6	<18	36	24	ND
Carbon Effluent	11/16/2021	O&M - Week 2	<5.7	<4.5	<3.3	<20	<2.7	<9.9	16	71	<2.5	ND	ND

Notes:

ND = Not detected above laboratory detection limits ug/m³ = micrograms per cubic meter

Laboratory Analytical Reports

Appendix A



7/11/2023

Mr. Michael Van Fleet Converse Consultants 717 South Myrtle Ave

Monrovia CA 91016

Project Name: Canyon Park

Project #:

Workorder #: 2307014

Dear Mr. Michael Van Fleet

The following report includes the data for the above referenced project for sample(s) received on 7/3/2023 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kathleen Kaneko at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kathleen Kaneko

Kathleen Kaneko

Project Manager



WORK ORDER #: 2307014

Work Order Summary

CLIENT: Mr. Michael Van Fleet BILL TO: Mr. Michael Van Fleet

Converse Consultants
717 South Myrtle Ave
Monrovia, CA 91016

Converse Consultants
717 South Myrtle Ave
Monrovia, CA 91016

Monrovia, CA 91016

PHONE: 626-930-1267 **P.O.**# 17-42-207-07

FAX: 626-930-1212 **PROJECT #** Canyon Park

DATE RECEIVED: 07/03/2023 **CONTACT:** Kathleen Kaneko

DATE COMPLETED: 07/11/2023

FRACTION#	<u>NAME</u>	TEST	RECEIPT <u>VAC./PRES.</u>	FINAL PRESSURE
01A	VMP-1	TO-15	0.2 "Hg	10 psi
02A	VMP-2	TO-15	2.4 "Hg	9.8 psi
03A	VMP-3	TO-15	3.9 "Hg	10 psi
04A	VMP-4R	TO-15	4.5 "Hg	9.8 psi
05A	VMP-5	TO-15	3.1 "Hg	9.9 psi
06A	VMP-6	TO-15	3.5 "Hg	10 psi
07A	VMP-7	TO-15	2 "Hg	10 psi
08A	VMP-9	TO-15	4.5 "Hg	10.1 psi
09A	VMP-16	TO-15	4.1 "Hg	9.9 psi
10A	VMP-18	TO-15	5.1 "Hg	10 psi
11A	VMP-23D	TO-15	4.5 "Hg	10.1 psi
12A	VMP-25D	TO-15	3.1 "Hg	9.8 psi
13A	VMP-26D	TO-15	6.3 "Hg	9.9 psi
14A	SVE-1	TO-15	6.9 "Hg	9.9 psi
15A	Lab Blank	TO-15	NA	NA
15B	Lab Blank	TO-15	NA	NA
15C	Lab Blank	TO-15	NA	NA
16A	CCV	TO-15	NA	NA
16B	CCV	TO-15	NA	NA
16C	CCV	TO-15	NA	NA
17A	LCS	TO-15	NA	NA
17AA	LCSD	TO-15	NA	NA
17B	LCS	TO-15	NA	NA

Continued on next page



WORK ORDER #: 2307014

Work Order Summary

CLIENT: Mr. Michael Van Fleet BILL TO: Mr. Michael Van Fleet

Converse Consultants
717 South Myrtle Ave
Monrovia, CA 91016

Converse Consultants
717 South Myrtle Ave
Monrovia, CA 91016

Monrovia, CA 91016

PHONE: 626-930-1267 **P.O.** # 17-42-207-07

FAX: 626-930-1212 PROJECT # Canyon Park

DATE RECEIVED: 07/03/2023 CONTACT: Kathleen Kaneko

DATE COMPLETED: 07/11/2023

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	PRESSURE
17BB	LCSD	TO-15	NA	NA
17C	LCS	TO-15	NA	NA
17CC	LCSD	TO-15	NA	NA

DECEIDE

TOTAL A

	Meide,	Mayer		
CERTIFIED BY:	0 0		DATE:	07/11/23

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.



LABORATORY NARRATIVE EPA Method TO-15 Converse Consultants Workorder# 2307014

Fourteen 1 Liter Summa Canister samples were received on July 03, 2023. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody was missing method information. EATL proceeded with the analysis as per the original contract or verbal agreement.

Sample collection date was incomplete on the Chain of Custody for samples VPM-1, VPM-2, VPM-3, VPM-4R, VPM-5, VPM-6, VPM-7, VPM-9, VPM-16, VPM-18, VPM-23D, VPM-25D, VPM-26D and SVE-1. The year of collection was assumed to be 2023.

The Chain of Custody (COC) was not relinquished properly. A time was not provided by the field sampler.

Analytical Notes

Dilution was performed on sample VMP-6 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.
 - M Reported value may be biased due to apparent matrix interferences.
 - CN See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-1 Lab ID#: 2307014-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
2-Propanol	3.4	7.2	8.3	18	
Trichloroethene	0.84	6.8	4.5	37	
Tetrachloroethene	0.84	120	5.7	810	

Client Sample ID: VMP-2

Lab ID#: 2307014-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	0.90	0.94	4.9	5.1
Tetrachloroethene	0.90	20	6.1	140

Client Sample ID: VMP-3

Lab ID#: 2307014-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	3.9	6.0	9.5	15
cis-1,2-Dichloroethene	0.96	4.8	3.8	19
Trichloroethene	0.96	14	5.2	76
Tetrachloroethene	0.96	110	6.5	750

Client Sample ID: VMP-4R

Lab ID#: 2307014-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Compound	(bbps)	(bhna)	(ug/ilio)	(ug/ilis)
Trichloroethene	0.98	1.2	5.3	6.6
Tetrachloroethene	0.98	44	6.6	300

Client Sample ID: VMP-5

Lab ID#: 2307014-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
2-Propanol	3.7	27	9.2	66	



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-5

Lab ID#: 2307014-05A

Tetrachloroethene 0.94 38 6.3 260

Client Sample ID: VMP-6

Lab ID#: 2307014-06A
No Detections Were Found.

Client Sample ID: VMP-7

Lab ID#: 2307014-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	3.6	6.7	8.8	16
cis-1,2-Dichloroethene	0.90	1.7	3.6	6.7
Trichloroethene	0.90	4.0	4.8	21
Tetrachloroethene	0.90	150	6.1	1000
Chloroform	0.90	2.3	4.4	11

Client Sample ID: VMP-9

Lab ID#: 2307014-08A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
2-Propanol	4.0	6.9	9.7	17

Client Sample ID: VMP-16

Lab ID#: 2307014-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	3.9	47	9.5	120
Trichloroethene	0.97	1.1	5.2	6.0
Tetrachloroethene	0.97	17	6.6	120

Client Sample ID: VMP-18

Lab ID#: 2307014-10A



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-18 Lab ID#: 2307014-10A

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
2-Propanol	4.0	7.4	9.9	18
Tetrachloroethene	1.0	2.4	6.8	16

Client Sample ID: VMP-23D

Lab ID#: 2307014-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
2-Propanol	4.0	6.9	9.7	17	
cis-1,2-Dichloroethene	0.99	2.0	3.9	8.0	
Trichloroethene	0.99	5.1	5.3	28	
Tetrachloroethene	0.99	37	6.7	250	

Client Sample ID: VMP-25D

Lab ID#: 2307014-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	3.7	750 E	9.1	1800 E
trans-1,2-Dichloroethene	0.93	14	3.7	56
cis-1,2-Dichloroethene	0.93	25	3.7	99
Trichloroethene	0.93	13	5.0	68
Tetrachloroethene	0.93	16	6.3	110

Client Sample ID: VMP-26D

Lab ID#: 2307014-13A
No Detections Were Found.

Client Sample ID: SVE-1

Lab ID#: 2307014-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.1	5.7	5.8	31
Tetrachloroethene	1.1	120	7.4	780



Client Sample ID: VMP-1 Lab ID#: 2307014-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070725	Date of Collection: 6/29/23 6:20:00 AM
Dil. Factor:	1.69	Date of Analysis: 7/8/23 12:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.84	Not Detected	2.2	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.4	Not Detected
2-Propanol	3.4	7.2	8.3	18
trans-1,2-Dichloroethene	0.84	Not Detected	3.4	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.4	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	6.8	4.5	37
Tetrachloroethene	0.84	120	5.7	810
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	97	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	110	70-130	



Client Sample ID: VMP-2 Lab ID#: 2307014-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070726	Date of Collection: 6/29/23 1:42:00 PM
Dil. Factor:	1.81	Date of Analysis: 7/8/23 01:19 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.6	Not Detected
2-Propanol	3.6	Not Detected	8.9	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.7	Not Detected
Trichloroethene	0.90	0.94	4.9	5.1
Tetrachloroethene	0.90	20	6.1	140
Carbon Tetrachloride	0.90	Not Detected	5.7	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: VMP-3 Lab ID#: 2307014-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070727	Date of Collection: 6/29/23 10:45:00 AM
Dil. Factor:	1.93	Date of Analysis: 7/8/23 01:49 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.96	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.96	Not Detected	3.8	Not Detected
2-Propanol	3.9	6.0	9.5	15
trans-1,2-Dichloroethene	0.96	Not Detected	3.8	Not Detected
1,1-Dichloroethane	0.96	Not Detected	3.9	Not Detected
cis-1,2-Dichloroethene	0.96	4.8	3.8	19
1,2-Dichloroethane	0.96	Not Detected	3.9	Not Detected
Trichloroethene	0.96	14	5.2	76
Tetrachloroethene	0.96	110	6.5	750
Carbon Tetrachloride	0.96	Not Detected	6.1	Not Detected
Chloroform	0.96	Not Detected	4.7	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: VMP-4R Lab ID#: 2307014-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070728	Date of Collection: 6/29/23 11:46:00 AM
Dil. Factor:	1.96	Date of Analysis: 7/8/23 02:20 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.98	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.98	Not Detected	3.9	Not Detected
2-Propanol	3.9	Not Detected	9.6	Not Detected
trans-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
1,1-Dichloroethane	0.98	Not Detected	4.0	Not Detected
cis-1,2-Dichloroethene	0.98	Not Detected	3.9	Not Detected
1,2-Dichloroethane	0.98	Not Detected	4.0	Not Detected
Trichloroethene	0.98	1.2	5.3	6.6
Tetrachloroethene	0.98	44	6.6	300
Carbon Tetrachloride	0.98	Not Detected	6.2	Not Detected
Chloroform	0.98	Not Detected	4.8	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: VMP-5 Lab ID#: 2307014-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070729	Date of Collection: 6/29/23 12:56:00 PM
Dil. Factor:	1.87	Date of Analysis: 7/8/23 02:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Propanol	3.7	27	9.2	66
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
Tetrachloroethene	0.94	38	6.3	260
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: VMP-6 Lab ID#: 2307014-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070730	Date of Collection: 6/29/23 5:53:00 PM
Dil. Factor:	3.04	Date of Analysis: 7/8/23 03:19 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
2-Propanol	6.1	Not Detected	15	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
1,1-Dichloroethane	1.5	Not Detected	6.2	Not Detected
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
1,2-Dichloroethane	1.5	Not Detected	6.2	Not Detected
Trichloroethene	1.5	Not Detected	8.2	Not Detected
Tetrachloroethene	1.5	Not Detected	10	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.6	Not Detected
Chloroform	1.5	Not Detected	7.4	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	108	70-130



Client Sample ID: VMP-7 Lab ID#: 2307014-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a070707	Date of Collection: 6/29/23 6:20:00 PM
Dil. Factor:	1.80	Date of Analysis: 7/7/23 09:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.6	Not Detected
2-Propanol	3.6	6.7	8.8	16
trans-1,2-Dichloroethene	0.90	Not Detected	3.6	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	1.7	3.6	6.7
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Trichloroethene	0.90	4.0	4.8	21
Tetrachloroethene	0.90	150	6.1	1000
Carbon Tetrachloride	0.90	Not Detected	5.7	Not Detected
Chloroform	0.90	2.3	4.4	11

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	89	70-130	
Toluene-d8	108	70-130	
4-Bromofluorobenzene	94	70-130	



Client Sample ID: VMP-9 Lab ID#: 2307014-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a070708	Date of Collection: 6/29/23 6:48:00 PM
Dil. Factor:	1.98	Date of Analysis: 7/7/23 09:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.99	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.99	Not Detected	3.9	Not Detected
2-Propanol	4.0	6.9	9.7	17
trans-1,2-Dichloroethene	0.99	Not Detected	3.9	Not Detected
1,1-Dichloroethane	0.99	Not Detected	4.0	Not Detected
cis-1,2-Dichloroethene	0.99	Not Detected	3.9	Not Detected
1,2-Dichloroethane	0.99	Not Detected	4.0	Not Detected
Trichloroethene	0.99	Not Detected	5.3	Not Detected
Tetrachloroethene	0.99	Not Detected	6.7	Not Detected
Carbon Tetrachloride	0.99	Not Detected	6.2	Not Detected
Chloroform	0.99	Not Detected	4.8	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	92	70-130



Client Sample ID: VMP-16 Lab ID#: 2307014-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a070709	Date of Collection: 6/29/23 3:24:00 PM
Dil. Factor:	1.94	Date of Analysis: 7/7/23 10:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.97	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.97	Not Detected	3.8	Not Detected
2-Propanol	3.9	47	9.5	120
trans-1,2-Dichloroethene	0.97	Not Detected	3.8	Not Detected
1,1-Dichloroethane	0.97	Not Detected	3.9	Not Detected
cis-1,2-Dichloroethene	0.97	Not Detected	3.8	Not Detected
1,2-Dichloroethane	0.97	Not Detected	3.9	Not Detected
Trichloroethene	0.97	1.1	5.2	6.0
Tetrachloroethene	0.97	17	6.6	120
Carbon Tetrachloride	0.97	Not Detected	6.1	Not Detected
Chloroform	0.97	Not Detected	4.7	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	94	70-130



Client Sample ID: VMP-18 Lab ID#: 2307014-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a070710	Date of Collection: 6/29/23 12:34:00 PM
Dil. Factor:	2.02	Date of Analysis: 7/7/23 10:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
2-Propanol	4.0	7.4	9.9	18
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
cis-1.2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	Not Detected	5.4	Not Detected
Tetrachloroethene	1.0	2.4	6.8	16
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	92	70-130



Client Sample ID: VMP-23D Lab ID#: 2307014-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071007	Date of Collection: 6/29/23 1:46:00 PM
Dil. Factor:	1.98	Date of Analysis: 7/10/23 03:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.99	Not Detected	2.5	Not Detected
1,1-Dichloroethene	0.99	Not Detected	3.9	Not Detected
2-Propanol	4.0	6.9	9.7	17
trans-1,2-Dichloroethene	0.99	Not Detected	3.9	Not Detected
1,1-Dichloroethane	0.99	Not Detected	4.0	Not Detected
cis-1,2-Dichloroethene	0.99	2.0	3.9	8.0
1,2-Dichloroethane	0.99	Not Detected	4.0	Not Detected
Trichloroethene	0.99	5.1	5.3	28
Tetrachloroethene	0.99	37	6.7	250
Carbon Tetrachloride	0.99	Not Detected	6.2	Not Detected
Chloroform	0.99	Not Detected	4.8	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130



Client Sample ID: VMP-25D Lab ID#: 2307014-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071008	Date of Collection: 6/29/23 11:12:00 AM
Dil. Factor:	1.86	Date of Analysis: 7/10/23 03:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.93	Not Detected	2.4	Not Detected
1,1-Dichloroethene	0.93	Not Detected	3.7	Not Detected
2-Propanol	3.7	750 E	9.1	1800 E
trans-1,2-Dichloroethene	0.93	14	3.7	56
1,1-Dichloroethane	0.93	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.93	25	3.7	99
1,2-Dichloroethane	0.93	Not Detected	3.8	Not Detected
Trichloroethene	0.93	13	5.0	68
Tetrachloroethene	0.93	16	6.3	110
Carbon Tetrachloride	0.93	Not Detected	5.8	Not Detected
Chloroform	0.93	Not Detected	4.5	Not Detected

E = Exceeds instrument calibration range.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	98	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	102	70-130	



Client Sample ID: VMP-26D Lab ID#: 2307014-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071009	Date of Collection: 6/29/23 4:40:00 PM
Dil. Factor:	2.12	Date of Analysis: 7/10/23 04:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
2-Propanol	4.2	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Trichloroethene	1.1	Not Detected	5.7	Not Detected
Tetrachloroethene	1.1	Not Detected	7.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	110	70-130



Client Sample ID: SVE-1 Lab ID#: 2307014-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071010	Date of Collection: 6/29/23 3:17:00 PM
Dil. Factor:	2.17	Date of Analysis: 7/10/23 04:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	5.7	5.8	31
Tetrachloroethene	1.1	120	7.4	780
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130



Client Sample ID: Lab Blank Lab ID#: 2307014-15A

EPA METHOD TO-15 GC/MS FULL SCAN

	Dut Limit	Amount Dut Limit Amount
Dil. Factor:	1.00	Date of Analysis: 7/7/23 11:50 AM
File Name:	3070706d	Date of Collection: NA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: Lab Blank Lab ID#: 2307014-15B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a070706	Dat	e of Collection: NA	
Dil. Factor:	1.00	Dat	e of Analysis: 7/7/23	07:57 PM
•	Rpt. Limit	Amount	Rpt. Limit	Amount

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	93	70-130



Client Sample ID: Lab Blank Lab ID#: 2307014-15C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071006a	Dat	e of Collection: NA	
Dil. Factor:	1.00	Dat	e of Analysis: 7/10/2	3 11:12 AM
	Rpt. Limit	Amount	Rpt. Limit	Amount

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: CCV Lab ID#: 2307014-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3070703 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 7/7/23 10:11 AM

Compound	%Recovery	
Vinyl Chloride	92	_
1,1-Dichloroethene	94	
2-Propanol	99	
trans-1,2-Dichloroethene	92	
1,1-Dichloroethane	93	
cis-1,2-Dichloroethene	95	
1,2-Dichloroethane	89	
Trichloroethene	92	
Tetrachloroethene	95	
Carbon Tetrachloride	91	
Chloroform	92	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	109	70-130



Client Sample ID: CCV Lab ID#: 2307014-16B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a070702 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 7/7/23 05:49 PM

Compound	%Recovery	
Vinyl Chloride	100	
1,1-Dichloroethene	98	
2-Propanol	99	
trans-1,2-Dichloroethene	99	
1,1-Dichloroethane	94	
cis-1,2-Dichloroethene	100	
1,2-Dichloroethane	87	
Trichloroethene	92	
Tetrachloroethene	88	
Carbon Tetrachloride	90	
Chloroform	92	

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	95	70-130



Client Sample ID: CCV Lab ID#: 2307014-16C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: 3071003 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 7/10/23 09:14 AM

Compound	%Recovery	
Vinyl Chloride	94	
1,1-Dichloroethene	97	
2-Propanol	105	
trans-1,2-Dichloroethene	96	
1,1-Dichloroethane	96	
cis-1,2-Dichloroethene	97	
1,2-Dichloroethane	91	
Trichloroethene	94	
Tetrachloroethene	96	
Carbon Tetrachloride	93	
Chloroform	95	

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130



Client Sample ID: LCS Lab ID#: 2307014-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/7/23 10:38 AM

	Method
%Recovery	Limits
94	70-130
94	70-130
122	70-130
94	70-130
96	70-130
96	70-130
100	70-130
97	70-130
99	70-130
95	70-130
92	70-130
	94 94 122 94 96 96 100 97 99

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	96	70-130	
Toluene-d8	102	70-130	
4-Bromofluorobenzene	110	70-130	



Client Sample ID: LCSD Lab ID#: 2307014-17AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3070705	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/7/23 11:06 AM

		Method
Compound	%Recovery	Limits
Vinyl Chloride	94	70-130
1,1-Dichloroethene	93	70-130
2-Propanol	121	70-130
trans-1,2-Dichloroethene	93	70-130
1,1-Dichloroethane	95	70-130
cis-1,2-Dichloroethene	96	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	95	70-130
Tetrachloroethene	96	70-130
Carbon Tetrachloride	94	70-130
Chloroform	92	70-130

Surrogates	%Recovery	Method Limits	
1,2-Dichloroethane-d4	96	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	109	70-130	



Client Sample ID: LCS Lab ID#: 2307014-17B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a070703 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 7/7/23 06:13 PM

	Method
%Recovery	Limits
100	70-130
93	70-130
101	70-130
97	70-130
92	70-130
98	70-130
88	70-130
93	70-130
90	70-130
90	70-130
88	70-130
	100 93 101 97 92 98 88 93 90 90

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	94	70-130



Client Sample ID: LCSD Lab ID#: 2307014-17BB

EPA METHOD TO-15 GC/MS FULL SCAN

F	File Name:	a070704	Date of Collection: NA
[Oil. Factor:	1.00	Date of Analysis: 7/7/23 06:37 PM

	Method
%Recovery	Limits
100	70-130
93	70-130
102	70-130
98	70-130
93	70-130
100	70-130
87	70-130
92	70-130
90	70-130
90	70-130
90	70-130
	100 93 102 98 93 100 87 92 90 90

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	82	70-130	
Toluene-d8	103	70-130	
4-Bromofluorobenzene	93	70-130	



Client Sample ID: LCS Lab ID#: 2307014-17C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/10/23 09:42 AM

		Method
Compound	%Recovery	Limits
Vinyl Chloride	98	70-130
1,1-Dichloroethene	96	70-130
2-Propanol	126	70-130
trans-1,2-Dichloroethene	97	70-130
1,1-Dichloroethane	98	70-130
cis-1,2-Dichloroethene	98	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	95	70-130
Tetrachloroethene	99	70-130
Carbon Tetrachloride	96	70-130
Chloroform	95	70-130

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130



Client Sample ID: LCSD Lab ID#: 2307014-17CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3071005	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/10/23 10:09 AM

	Method
%Recovery	Limits
97	70-130
95	70-130
127	70-130
95	70-130
97	70-130
97	70-130
91	70-130
90	70-130
97	70-130
95	70-130
94	70-130
	97 95 127 95 97 97 91 90 97

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Michael Erdahl, B.S. Vineta Mills, M.S. Eric Young, B.S. 5500 4th Avenue South Seattle, WA 98108 (206) 285-8282 fbi@isomedia.com www.friedmanandbruya.com

July 10, 2023

Dan Whitman, Project Manager Whitman Environmental Sciences 6812 16th Ave NE Seattle, WA 98115

Dear Mr Whitman:

Included are the results from the testing of material submitted on July 3, 2023 from the Canyon Park WES-1683A, F&BI 307013 project. There are 7 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

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 WES0710R.DOC

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 3, 2023 by Friedman & Bruya, Inc. from the Whitman Environmental Sciences Canyon Park WES-1683A, F&BI 307013 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Whitman Environmental Sciences
307013 -01	MW-1-GW
307013 -02	MW-2-GW
307013 -03	MW-3-GW

All quality control requirements were acceptable.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-1-GW	Client:	Whitman Environmental Sciences
Date Received:	07/03/23	Project:	Canyon Park WES-1683A
Date Extracted:	07/05/23	Lab ID:	307013-01
Date Analyzed:	07/05/23	Data File:	070519.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

		Lower	\cup pper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	102	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	< 0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	< 0.2
1,1,1-Trichloroethane	<1
Trichloroethene	< 0.5
Tetrachloroethene	<1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-2-GW	Client:	Whitman Environmental Sciences
Date Received:	07/03/23	Project:	Canyon Park WES-1683A
Date Extracted:	07/05/23	Lab ID:	307013-02
Date Analyzed:	07/05/23	Data File:	070520.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	87	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	< 0.02
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	< 0.2
1,1,1-Trichloroethane	<1
Trichloroethene	< 0.5
Tetrachloroethene	<1

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW-3-GW	Client:	Whitman Environmental Sciences
Date Received:	07/03/23	Project:	Canyon Park WES-1683A
Date Extracted:	07/05/23	Lab ID:	307013-03
Date Analyzed:	07/05/23	Data File:	070515.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	MD

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	83	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	98	62	136

Concentration ug/L (ppb)
< 0.02
<1
<1
<5
<1
<1
<1
< 0.2
<1
< 0.5
11

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Whitman Environmental Sciences
Date Received:	Not Applicable	Project:	Canyon Park WES-1683A

Not Applicable Date Received: Project: Date Extracted: 07/05/23 Lab ID: 03-1532 mbDate Analyzed: 07/05/23 Data File: 070507.DMatrix: Water Instrument: GCMS13 Units: ug/L (ppb) Operator: MD

		Lower	Upper
Surrogates:	% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	94	68	139
4-Bromofluorobenzene	95	62	136

1,1-Dichloroethene <1 Methylene chloride <5 trans-1,2-Dichloroethene <1 1,1-Dichloroethane <1 cis-1,2-Dichloroethene <1 1,2-Dichloroethane (EDC) < 0.2 1,1,1-Trichloroethane <1 Trichloroethene < 0.5 Tetrachloroethene <1

ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/23 Date Received: 07/03/23

Project: Canyon Park WES-1683A, F&BI 307013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260D

Laboratory Code: 307013-03 (Matrix Spike)

Laboratory Code. 507015 05 (Matrix Spike)												
				Percent								
	Reporting	Spike	Sample	Recovery	Acceptance							
Analyte	Units	Level	Result	MS	Criteria							
Vinyl chloride	ug/L (ppb)	10	< 0.02	104	16-176							
Chloroethane	ug/L (ppb)	10	<1	119	50-150							
1,1-Dichloroethene	ug/L (ppb)	10	<1	107	50-150							
Methylene chloride	ug/L (ppb)	10	<5	100	40-143							
trans-1,2-Dichloroethene	ug/L (ppb)	10	<1	105	50 - 150							
1,1-Dichloroethane	ug/L (ppb)	10	<1	101	50-150							
cis-1,2-Dichloroethene	ug/L (ppb)	10	<1	104	50-150							
1,2-Dichloroethane (EDC)	ug/L (ppb)	10	< 0.2	102	50-150							
1,1,1-Trichloroethane	ug/L (ppb)	10	<1	102	50-150							
Trichloroethene	ug/L (ppb)	10	< 0.5	106	43-133							
Tetrachloroethene	ug/L (ppb)	10	11	107 b	50-150							

Laboratory Code: Laboratory Control Sample

		Percent	Percent		
Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Units	Level	LCS	LCSD	Criteria	(Limit 20)
ug/L (ppb)	10	102	103	43-149	1
ug/L (ppb)	10	118	119	59 - 157	1
ug/L (ppb)	10	106	107	67-138	1
ug/L (ppb)	10	96	98	29-192	2
ug/L (ppb)	10	103	104	70-130	1
ug/L (ppb)	10	102	102	70-130	0
ug/L (ppb)	10	104	104	70-130	0
ug/L (ppb)	10	104	103	70-130	1
ug/L (ppb)	10	103	103	70-130	0
ug/L (ppb)	10	106	107	70-130	1
ug/L (ppb)	10	106	107	70-130	1
	Units ug/L (ppb) ug/L (ppb)	Units Level ug/L (ppb) 10 ug/L (ppb) 10	Reporting Spike Level Recovery LCS ug/L (ppb) 10 102 ug/L (ppb) 10 118 ug/L (ppb) 10 106 ug/L (ppb) 10 96 ug/L (ppb) 10 103 ug/L (ppb) 10 102 ug/L (ppb) 10 104 ug/L (ppb) 10 103 ug/L (ppb) 10 103 ug/L (ppb) 10 103 ug/L (ppb) 10 106	Reporting Units Spike Level Recovery LCS Recovery LCSD ug/L (ppb) 10 102 103 ug/L (ppb) 10 118 119 ug/L (ppb) 10 106 107 ug/L (ppb) 10 96 98 ug/L (ppb) 10 103 104 ug/L (ppb) 10 102 102 ug/L (ppb) 10 104 104 ug/L (ppb) 10 104 103 ug/L (ppb) 10 103 103 ug/L (ppb) 10 103 103 ug/L (ppb) 10 103 103 ug/L (ppb) 10 106 107	Reporting Units Spike Level Recovery LCS Recovery LCSD Acceptance Criteria ug/L (ppb) 10 102 103 43-149 ug/L (ppb) 10 118 119 59-157 ug/L (ppb) 10 106 107 67-138 ug/L (ppb) 10 96 98 29-192 ug/L (ppb) 10 103 104 70-130 ug/L (ppb) 10 102 102 70-130 ug/L (ppb) 10 104 104 70-130 ug/L (ppb) 10 103 103 70-130 ug/L (ppb) 10 103 103 70-130 ug/L (ppb) 10 103 103 70-130 ug/L (ppb) 10 106 107 70-130

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, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. 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 standard reporting limit. 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.
- k The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.
- 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.

			Ph. (206) 285-8282	· · · · · · · · · · · · · · · · · · ·							110-5-616	Ma-2-66	110-1-612	Sample ID		PhoneEn	City, State, ZIP	Company Address	Report To	307013
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